

最終報告書訂正届

表 題：イソノナンのラットにおける反復投与毒性・生殖発生毒性併合試験

1 訂正日：2020年12月22日

2 訂正内容および訂正理由：

(1) 訂正項目：3.1 被験物質 (15頁)

訂正後記載：

名称 : イソノナン

製品名 :

CAS番号 : 34464-40-9

官報公示整理番号 : (2)-9

構造式¹⁾ : Iso-C₈H₁₇—CH₃

(省略)

含有率(規格値)または不純物²⁾ : 95 ~ 99.5%以上 (0.5%以下のノルマルノナンを含有する)

本製品には若干量のC8, C10を含む(組成は不明). 安全データシートにはCAS No. 68551-15-5 (Alkanes, C8-10-iso-) も記載あり.

訂正前記載：

名称 : イソノナン

別名 : Isononane

2-Methyloctane¹⁾

Alkanes, C8-10-iso¹⁾

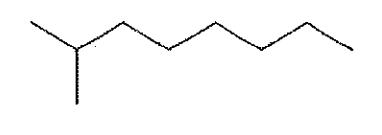
製品名 :

CAS番号 : 68551-15-5

34464-40-9

官報公示整理番号 : (2)-9

構造式¹⁾ :



(省略)

含有率 (規格値) (追加記載)²⁾ : 95 ~ 99.5%以上 (0.5%以下のノルマルノナンを含有する)

(追加記載)

(省略)

訂正理由：被験物質情報の誤りを訂正し、より適切な記載とするため。

(2) 訂正項目：8 参考資料 (52 頁)

訂正後記載：

- 1) NITE-CH RIP, イソノナン,

website: https://www.nite.go.jp/chem/chrip/chrip_search/cmpInfDsp?dpMd=0&cid=C006-176-67A&slIdxNm=&slScNm=&slScCtNm=&slScRgNm=&bcPtn=5&shMd=0&txNumSh=MzQ0NjQtNDAtOQ==<NumTp=1<NumMh=0&txNmSh=<NmTp=<NmMh=1&txNmSh1=<NmTp1=&txNmSh2=<NmTp2=&txNmSh3=<NmTp3=&txMISh=<MIH=0<ScDp=<PgCtSt=100&rbDp=0&txScSML=&txScSML2=<ScTp=1&txUpScFl=null&hdUpScPh=&hdUpHash=&rbScMh=1&txScNyMh=&txMIWtSt=&txMIWtEd=&err=

訂正前記載：

- 1) PubChem, 2-Methyloctane,

website: <https://pubchem.ncbi.nlm.nih.gov/compound/2-methyloctane>

訂正理由：参考文献を適切なものとするため。

3 試験責任者の署名

試験施設

株式会社化合物安全性研究所

試験責任者

 2020 年 12 月 22 日

信頼性保証書

表題 : イソノナンのラットにおける反復投与毒性・生殖発生毒性併合試験

試験番号 : SR19180

本最終報告書の訂正は、株式会社化合物安全性研究所 QAU によって、下記のとおり査察された。

査察段階	査察日	試験責任者 への報告日	運営管理者 への報告日
最終報告書訂正届 (No.1)	2020年12月22日	2020年12月22日	2020年12月22日

本最終報告書の訂正は、当該試験の実施において得られた生データに基づいて行われていることを確認した。

株式会社化合物安全性研究所

QAU 責任者

 2020年12月22日

最終報告書

表　　題：イソノナンのラットにおける反復投与毒性・生殖発生毒性併合試験

試験番号：SR19180

株式会社化合物安全性研究所

試験責任者の署名

表 題：イソノナンのラットにおける反復投与毒性・生殖発生毒性併合試験

試験番号：SR19180

株式会社化合物安全性研究所

試験責任者



2020年3月27日

陳述書

表　題：イソノナンのラットにおける反復投与毒性・生殖発生毒性併合試験

試験番号：SR19180

本試験は、GLP基準「新規化学物質等に係る試験を実施する試験施設に関する基準について」(平成23年3月31日 薬食発0331第8号・平成23・03・29 製局第6号・環保企発第110331010号 厚生労働省医薬食品局長・経済産業省製造産業局長・環境省総合環境政策局長連名通知)を遵守して実施した。

本試験に用いた試験方法は、試験法ガイドライン「新規化学物質等に係る試験の方法について」(平成23年3月31日薬食発0331第7号・平成23・03・29 製局第5号・環保企発第110331009号 厚生労働省医薬食品局長・経済産業省製造産業局長・環境省総合環境政策局長連名通知)ならびに「新規化学物質等に係る試験の方法について」の一部改正について(平成30年3月29日薬生発0329第13号・20180326 製局第1号・環保企発第1803293号 厚生労働省医薬・生活衛生局長・経済産業省製造産業局長・環境省大臣官房環境保健部長連名通知)に準拠した。

株式会社化合物安全性研究所

試験責任者



2020年3月27日

信頼性保証書

表題 : イソノナンのラットにおける反復投与毒性・生殖発生毒性併合試験

試験番号 : SR19180

本試験は、株式会社化合物安全性研究所 QAU によって、下記のとおり査察された。

査察段階	査察日	試験責任者 への報告日	運営管理者 への報告日
試験計画書	2019年11月 5日	2019年11月 5日	2019年11月 5日
コンピュータプロトコール	2019年11月 5日	2019年11月 5日	2019年11月 5日
動物受入・検疫・馴化	2019年11月 6日	2019年11月 13日	2019年11月 13日
被験物質の管理	2019年11月 19日	2019年11月 19日	2019年11月 19日
投与液の調製	2019年11月 19日	2019年11月 19日	2019年11月 19日
群分け	2019年11月 28日	2019年11月 28日	2019年11月 28日
投与	2019年11月 29日	2019年11月 29日	2019年11月 29日
一般状態観察	2019年11月 29日	2019年11月 29日	2019年11月 29日
体重測定	2019年11月 29日	2019年11月 29日	2019年11月 29日
摂餌量測定	2019年11月 29日	2019年11月 29日	2019年11月 29日
性周期検査	2019年11月 29日	2019年11月 29日	2019年11月 29日
試験計画書変更書 (No.1)	2019年12月 5日	2019年12月 5日	2019年12月 5日
詳細な状態観察	2019年12月 12日	2019年12月 12日	2019年12月 12日
生殖能検査 (交配)	2019年12月 12日 2019年12月 13日	2019年12月 16日	2019年12月 16日
尿検査	2019年12月 20日 2019年12月 21日	2019年12月 23日	2019年12月 23日
機能検査	2019年12月 23日	2019年12月 23日	2019年12月 23日
採血	2019年12月 27日	2019年12月 27日	2019年12月 27日
血液学的検査	2019年12月 27日	2019年12月 27日	2019年12月 27日
血液化学的検査	2019年12月 27日	2019年12月 27日	2019年12月 27日
剖検・器官重量測定	2019年12月 27日	2019年12月 27日	2019年12月 27日
分娩および哺育状態観察	2020年 1月 5日	2020年 1月 6日	2020年 1月 6日
新生児の一般状態観察	2020年 1月 5日	2020年 1月 6日	2020年 1月 6日
新生児の体重測定	2020年 1月 5日	2020年 1月 6日	2020年 1月 6日
哺育児数の調整	2020年 1月 8日	2020年 1月 8日	2020年 1月 8日
肛門生殖突起間距離	2020年 1月 8日	2020年 1月 8日	2020年 1月 8日
被験物質のサンプリング	2020年 1月 14日	2020年 1月 15日	2020年 1月 15日

査察段階	査察日	試験責任者 への報告日	運営管理者 への報告日
病理組織学的検査(標本作製)	2020年1月6日 2020年1月8日 2020年1月10日 2020年1月14日	2020年1月15日	2020年1月15日
乳頭数	2020年1月17日	2020年1月17日	2020年1月17日
新生児の血清採取	2020年1月17日	2020年1月17日	2020年1月17日
新生児の剖検	2020年1月17日	2020年1月17日	2020年1月17日
血液化学的検査	2020年1月23日	2020年1月23日	2020年1月23日
病理組織学的検査(鏡検)	2020年2月4日	2020年2月4日	2020年2月4日
試験計画書変更書(No.2)	2020年2月10日	2020年2月10日	2020年2月10日
コンピュータプロトコール	2020年2月10日	2020年2月10日	2020年2月10日
試験計画書変更書(No.3)	2020年2月17日	2020年2月18日	2020年2月18日
試験計画書変更書(No.4)	2020年3月2日	2020年3月2日	2020年3月2日
コンピュータプロトコール	2020年3月2日	2020年3月2日	2020年3月2日
生データ	2020年3月10日 2020年3月11日 2020年3月12日 2020年3月13日 2020年3月16日	2020年3月16日	2020年3月16日
最終報告書(草案):図表	2020年3月10日 2020年3月11日 2020年3月12日 2020年3月13日 2020年3月16日	2020年3月16日	2020年3月16日
最終報告書(草案):本文	2020年3月12日 2020年3月13日 2020年3月16日	2020年3月16日	2020年3月16日
生データ*	2020年3月16日	2020年3月16日	2020年3月16日
最終報告書	2020年3月27日	2020年3月27日	2020年3月27日

* : 改善内容の確認

本試験は、「新規化学物質等に係る試験を実施する試験施設に関する基準について」(平成23年3月31日 薬食発0331第8号・平成23・03・29 製局第6号・環保企発第110331010号 厚生労働省医薬食品局長・経済産業省製造産業局長・環境省総合環境政策局長連名通知)に従い実施された。

本試験は、試験計画書に従って実施され、また、本報告書には当該試験に使用した方法および

手順が正確に記載されており、試験成績には当該試験の実施過程において得られた生データが正確に反映していることを確認した。

株式会社化合物安全性研究所
QAU 責任者

2020年3月27日

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表題

イソノナンのラットにおける反復投与毒性・生殖発生毒性併合試験

試験番号

SR19180

試験目的

イソノナンを雌雄ラットに反復経口投与してその毒性ならびに性腺機能、交尾行動、受胎および分娩等の生殖に及ぼす毒性を検討した。加えて、28日間の反復投与終了後14日間の休薬による毒性の回復性についても検討した。

試験実施基準および試験法ガイドライン

試験実施基準 (GLP) :「新規化学物質等に係る試験を実施する試験施設に関する基準について」(平成23年3月31日 薬食発0331第8号・平成23・03・29 製局第6号・環保企発第110331010号 厚生労働省医薬食品局長・経済産業省製造産業局長・環境省総合環境政策局長連名通知)

試験法ガイドライン :「新規化学物質等に係る試験の方法について」(平成23年3月31日薬食発0331第7号・平成23・03・29 製局第5号・環保企発第110331009号 厚生労働省医薬食品局長・経済産業省製造産業局長・環境省総合環境政策局長連名通知)ならびに「新規化学物質等に係る試験の方法について」の一部改正について(平成30年3月29日薬生発0329第13号・20180326 製局第1号・環保企発第1803293号 厚生労働省医薬・生活衛生局長・経済産業省製造産業局長・環境省大臣官房環境保健部長連名通知)

動物愛護

法規および基準等 :「動物の愛護及び管理に関する法律」(昭和48年10月1日 法律第105号, 最終改正 平成29年6月2日 法律第51号)
 「実験動物の飼養及び保管並びに苦痛の軽減に関する基準」(平成18年4月28日 環境省告示第88号, 最終改正 平成25年8月30日 環境省告示第84号)
 「動物実験に関する指針」(昭和62年5月22日承認 社団法人日本実験動物学会)

「厚生労働省の所管する実施機関における動物実験等の実施に関する基本指針について」(平成18年6月1日 科発0601001号, 最終改正 平成27年2月20日 科発0220第1号)

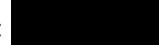
動物実験倫理

: 本試験は、動物実験の必要性および苦痛の軽減等について試験施設の動物実験倫理委員会により審議され、運営管理者の承認を得ており、試験施設の動物実験倫理規定に準拠して実施した。

試験委託者

名称 : 厚生労働省 医薬・生活衛生局
所在地 : 東京都千代田区霞が関1-2-2(〒100-8916)
担当者 : 医薬品審査管理課化学物質安全対策室

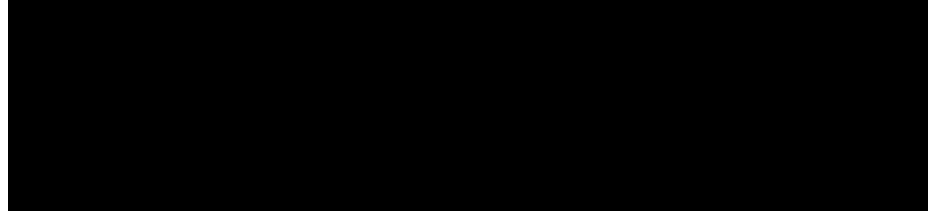
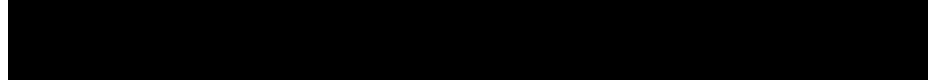
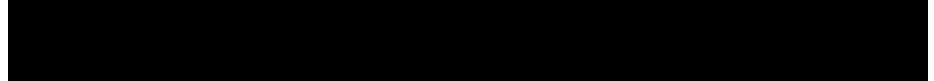
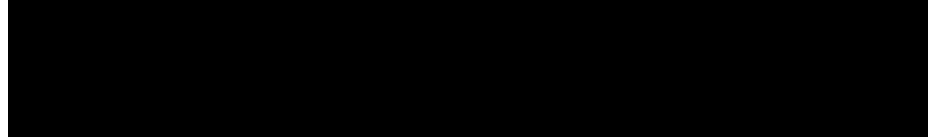

試験施設

名称 : 株式会社化合物安全性研究所
所在地 : 札幌市清田区真栄363番24(〒004-0839)
運営管理者 : 

試験責任者

氏名 : 
所属 : 株式会社化合物安全性研究所 安全性研究部

試験従事者およびその業務分担

被験物質の調製 : 
検疫・馴化 : 
投与・観察・測定 : 
臨床検査 : 

病理検査

:



試験日程

試験開始日 : 2019年 11月 5日

動物受入 : 2019年 11月 6日

群分け : 2019年 11月 28日

投与開始 (実験開始) : 2019年 11月 29日

交配開始 : 2019年 12月 12日

雄動物およびサテライト群雌動物投与終了 :

2019年 12月 26日

雄動物およびサテライト群雌動物 (投与終了時剖検例) 剖検 :

2019年 12月 27日

母動物分娩開始 : 2020年 1月 4日

生後 4 日児数調整開始 : 2020年 1月 8日

サテライト群雄および雌動物 (回復終了時剖検例) 剖検 :

2020年 1月 10日

生後 13 日新生児剖検開始 :

2020年 1月 17日

母動物剖検開始 : 2020年 1月 18日 (最終剖検 2020年 1月 30日)

実験終了日 : 2020年 3月 6日

試験終了日 : 2020年 3月 27日

1 要約

イソノナンの 0 (溶媒対照, トウモロコシ油), 60, 250 および 1000 mg/kg を 1 群雌雄各 12 匹の Crl:CD(SD) ラットに, 雄に対しては交配前, 交配期間および交配後を含む計 28 日間, 雌に対しては交配前, 交配および妊娠期間, ならびに分娩後 13 日までの期間経口投与し, 雌雄動物への反復投与による影響, 雌雄動物の生殖および新生児の発生に及ぼす影響について検討した. また, 0 (対照) および 1000 mg/kg について, 雄動物は各 5 匹を選抜して 28 日間の投与終了後 14 日間の回復性を検討し, 雌動物は各 10 匹の非交配群を別に設け, 5 匹は 28 日間の投与終了時に剖検し, 5 匹はさらに 14 日間の回復性についても検討した.

1.1 反復投与毒性

1000 mg/kg 群では, 雌の主試験群および非交配群の各 1 例で呼吸緩徐および自発運動の低下がみられ, いずれも衰弱が著しいことから安楽死させた. その他に, 雌雄で外尿道口周囲被毛汚染, 雌で口周囲被毛汚染および流涎がみられた. 雄では体重増加量の低値がみられた. 雌では投与開始後 7 日までの間に一部の動物で著しい体重および摂餌量の減少がみられ, 群平均でも主試験群の妊娠および哺育期間の体重, 非交配群の投与期間を通した体重および投与 7 日までの摂餌量に低値がみられた. 一方, 雄の投与 28 日および雌の妊娠 20 日の摂餌量には高値がみられた. 尿検査では, 非交配群の雌で尿量の高値および尿 pH の低値がみられた. 血液化学的検査では, 雄および非交配群の雌で総コレステロールの高値およびグルコースの低値, 雄で γ -GTP の高値がみられた. 病理検査では, 雄および雌の主試験群および非交配群で肝臓重量の高値がみられ, 病理組織学的検査で雌に小葉中心性肝細胞肥大がみられた. 詳細な状態観察, 機能検査, 血液学的検査, 雄の血清中 T4 濃度および剖検では, 雌雄ともに被験物質投与による毒性変化はみられなかった.

250 mg/kg 群では, 雄では被験物質投与による毒性変化はみられなかった. 雌では分娩後 14 日に剖検した動物では変化はみられなかったが, 交尾不成立例で小葉中心性肝細胞肥大がみられた.

60 mg/kg 群では, 雌雄とともに被験物質投与による毒性変化はみられなかった.

投与期間中にみられた変化には, 回復性が認められた.

その他に, 以下の毒性学的意義のない変化または二次的変化がみられた.

雄の 60 mg/kg 以上の用量群に, 病理組織学的検査で近位尿細管上皮の好酸性小体の出現頻度の増加がみられた. α 2u-グロブリン抗体による免疫染色で陽性であったことから, この変化は α 2u-グロブリン腎症と判断され, ヒトへの外挿性のない変化と考えられた. 雄の 60 mg/kg 以上の用量群で腎臓重量の高値, 250 および 1000 mg/kg 群で腎臓の大型化, 60 mg/kg 以上の用

量群で限局性の尿細管好塩基性化または尿細管拡張がみられ、いずれも α 2u-グロブリン腎症に関連する変化と考えられた。さらに、雄の 1000 mg/kg 群で尿量の高値、クロールの低値がみられ、 α 2u-グロブリン腎症との関連が示唆された。

雄の 250 mg/kg 群で肝臓の相対重量に高値がみられたが、病理組織学的検査および血液化学的検査には関連項目の変化はみられなかった。

雌の 1000 mg/kg 群で副腎重量に高値がみられ、ストレスに対する反応と考えられた。また、雌の 1000 mg/kg 群における衰弱例または著しい体重減少がみられた動物に、剖検で胸腺および脾臓の小型、病理組織学的検査で胸腺の皮質の萎縮、白脾髄の萎縮、小葉周辺性肝細胞空胞化、腎臓の尿細管拡張、尿細管上皮の空胞化、大腿骨骨髓の造血の減少または下頸リンパ節の傍皮質領域のリンパ球脱落がみられ、全身状態の悪化による変化と考えられた。

以上のように、本試験条件下におけるイソノナンの反復投与毒性に関する無毒性量 (NOAEL) は、1000 mg/kg で雌雄に外尿道口周囲被毛汚染、雌に呼吸緩徐、自発運動の低下、口周囲被毛汚染および流涎、雌雄に体重/体重増加量/摂餌量の低値および摂餌量の高値、総コレステロールの高値、グルコースの低値および肝臓重量の高値、雄に γ -GTP の高値、雌に尿量の高値、尿 pH の低値および小葉中心性肝細胞肥大がみられたことから、雌雄ともに 250 mg/kg/day と判断した。ただし、250 mg/kg の交尾不成立例で小葉中心性肝細胞肥大がみられたことから、哺育期間中ではない雌では 60 mg/kg/day と考えられた。

1.2 生殖発生毒性

親動物の生殖能検査では、1000 mg/kg 群まで性周期、交尾能、受胎能、分娩および出生児のいずれにも、被験物質投与の影響はみられなかった。

新生児の発生については、1000 mg/kg 群で雌雄の体重に低値がみられたが、一般状態および生存率には被験物質投与の影響はみられなかった。性比、外表異常児出現率、剖検、肛門生殖突起間距離、乳頭数、血清 T4 濃度には、被験物質の影響はみられなかった。

以上のように、本試験条件下におけるイソノナンの親動物の生殖に対する無毒性量 (NOAEL) は、1000 mg/kg まで被験物質投与の影響は認められなかったことから 1000 mg/kg/day、次世代の発生・発育に対する無毒性量 (NOAEL) は、1000 mg/kg で雌雄の新生児の体重の低値がみられたことから 250 mg/kg/day と判断した。

2 緒言

イソノナンの 0 (溶媒対照, トウモロコシ油), 60, 250 および 1000 mg/kg を 1 群雌雄各 12 匹の Crl:CD(SD) ラットに, 雄に対しては交配前, 交配期間および交配後を含む計 28 日間, 雌に対しては交配前, 交配および妊娠期間, ならびに分娩後 13 日までの期間経口投与し, 雌雄動物への反復投与による影響, 雌雄動物の生殖および新生児の発生に及ぼす影響について検討した. また, 0 (対照) および 1000 mg/kg について, 雄動物は各 5 匹を選抜して 28 日間の投与終了後 14 日間の回復性を検討し, 雌動物は各 10 匹の非交配群を別に設け, 5 匹は 28 日間の投与終了時に剖検し, 5 匹はさらに 14 日間の回復性についても検討した.

3 材料および方法

3.1 被験物質

名称 : イソノナン

別名 : Isononane

2-Methyloctane¹⁾

Alkanes, C8-10-iso⁻¹⁾

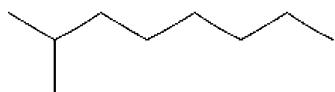
製品名 :

CAS 番号 : 68551-15-5

34464-40-9

官報公示整理番号 : (2)-9

構造式¹⁾ :



化学式²⁾ : C₉H₂₀

分子量²⁾ : 128.3

物理化学的性質²⁾ : 外観 ; 無色透明液体

化学的安定性 ; 通常の取扱い条件では安定

融点・凝固点 ; -65°C 以下

沸点 ; 135°C

比重 ; 0.728 (20/20°C)

水への溶解度 ; 0.01 g/100 g 以下 (20°C)

ロット番号 :

含有率 (規格値)²⁾ : 95 ~ 99.5%以上 (0.5%以下のノルマルノナンを含有する)

製造業者 : 名称 ; [REDACTED]
所在地 ; [REDACTED]

試験施設受領日 : 2019 年 8 月 28 日

被験物質管理責任者からの移管量 :

1000.83 g

使用量 : 876.0053 g

安定性 : 試験操作終了後、株式会社日曹分析センターにて安定性分析を実施した。その結果、投与期間中被験物質は安定であったことが確認された (Annex 2).

保存条件 : 室温 (実測範囲 20.9 ~ 22.8°C), 気密

保存場所および保存期間 : 被験物質保存室 ; 2019 年 8 月 28 日 (試験施設受領) ~ 2020 年 1 月 22 日 (最終調製)

取扱上の注意 : ゴム手袋、マスクおよび保護メガネを着用した。被験物質を分取する場合は、ガラス製の器具を用いてガラス容器に分取した。

サンプリング : 約 5 g (実測値 5.0002 g) を採取し、試験施設の資料保存室に保存した。

3.2 対照物質 (媒体)

名称 : トウモロコシ油

製造業者 : ナカライトスク株式会社

選定理由 : 被験物質が水に難溶であるため、ならびに油に溶解するため。

ロット番号 : V9K5988

保存条件 : 室温 (実測範囲 20.9 ~ 22.8°C) で保存した。ただし、開封後の残余は保存しなかった。
対照群の投与用として分注後は、被験物質調製液と同様に保存した。

保存場所および保存期間 : 被験物質保存室 ; 2019 年 8 月 26 日 (試験施設受領) ~ 2020 年 1 月 22 日 (最終調製)

被験物質管理責任者からの移管量 :

500 g × 46 本

使用量 : 500 g × 28 本

取扱上の注意 : 特になし。

3.3 投与液の調製および化学分析

調製方法	: 投与量毎に被験物質を正確に秤量し、トウモロコシ油(媒体)に所定の濃度になるように溶解させた。
調製頻度	: 調製液は5~9日の間隔で10回調製し、10日以内に使用した。
保存場所および保存期間	: 被験物質保存室；2019年11月19日(初回調製)~2020年1月29日(最終投与)
保存条件	: ガラス製の遮光気密容器に入れ、室温(実測範囲21.7~22.8°C)で保存した。
調製上の注意	: ゴム手袋、マスクおよび保護メガネを着用した。調製および分取の際は、ガラス製の器具を使用した。
残余投与液の処置	: 焼却処分するために産業廃棄物として回収した。
投与液の安定性の確認	: 2および200mg/mLの濃度の調製液について、室温保存10日間(調製日を0日として起算)の安定性を確認した。調製および安定性の分析は株式会社日曹分析センターが実施し、分析結果を入手した。分析の結果、室温保存10日間の安定性が確認された(Annex 2)。
投与液の濃度確認	: 被験物質の全濃度に関する投与液中の濃度を、初回および雄の最終回投与に使用する調製液について確認した。投与液の濃度分析は株式会社日曹分析センターが実施し、分析結果を入手した。分析の結果、いずれの濃度も適切であることが確認された(Annex 2)。

3.4 試験系

種・系統	: ラット、Crl:CD(SD)
微生物統御	: SPF
生産業者	: 日本チャールス・リバー株式会社
微生物モニタリング	: 動物生産業者よりデータを入手した。
動物選定理由	: ラットはこの種の試験で通常用いられている動物種であり、繁殖成績が安定していることと試験施設における背景対照データが利用できることからこの系統を選定した。
受入動物数	: 雄50匹、雌72匹
受入動物週齢	: 雌雄とも9週齢
出荷体重基準	: 雄 270~360g、雌 180~240g
受入時体重範囲	: 雄 291~332g、雌 196~224g
投与開始時週齢	: 雌雄とも12週齢

群数	: 雄 6 群, 雌 8 群 (主試験群 雌雄各 4 群, サテライト群 雄 2 群, 雌 非交配群 4 群)
各群動物数	: 主試験群 雌雄各 12 匹, サテライト群 雌雄各 5 匹

3.5 検疫および馴化

期間	: 検疫期間は受入日 (検疫 1 日) から検疫 6 日までの期間. 馴化期間は検疫期間を含めた群分け日までの期間.
方法	: 一般状態を 1 日 1 回観察し, 体重を受入時, 検疫 6 日および群分け日に測定した. 馴化期間中の一般状態では, 雌雄各 1 例 (受入時動物番号 1015 および 5022) で外傷がみられた. 体重には, いずれの動物にも異常はみられなかった.
性周期検査	: 雌動物について, 性周期検査を膣垢スメア塗抹法により群分け日までの 14 日間実施した. 検査の結果, 1 例 (受入時動物番号 5038) に性周期異常がみられた以外に, 異常は認められなかった.

3.6 群分け

馴化期間中に実施した一般状態観察, 体重測定および雌の性周期検査の結果から, 一般状態または性周期検査で異常がみられた雄 1 例, 雌 2 例を除く動物を群分けに使用した. コンピュータシステム (MiTOX, 三井 E & S システム技研株式会社) を使用して, 雄 48 匹, 雌 68 匹を選抜し, 群分け日 (投与開始前日) の体重に基づいて層化無作為抽出法により群間で平均体重が均一になるように各群に割当てた. ただし, 雌については主試験群, サテライト群それぞれの平均体重が均一になるようにした. 選抜した動物の体重範囲は, 雄で 386 ~ 477 g, 雌で 247 ~ 300 g であり, 平均体重 (雄 438.7 g, 雌 273.0 g) の ± 20% 以内であった. 群分けから外れた動物は, 投与開始日に試験から除外し, 試験施設の標準操作手順書に従って取り扱った.

3.7 動物およびケージの識別

動物	: 群分け前は受入時に油性フェルトペンで尾部に印を付け, 個体識別を行った. 群分け後は耳介に動物番号を入れ墨し, 個体識別を行った. ただし, 新生児については個体識別を行わなかった.
飼育ケージ	: 群分け前は試験 No., 識別 No., 性別, ケージ No. および種 / 系統を印字したラベルを各ケージの前面に標示した.

群分け後は試験 No., 動物 No., 性別, 被験物質名, 用量(経路)および種 / 系統を印字したラベルを各ケージの前面に標示した。交尾成立雌動物は上記と同様の項目を記載した新たなラベルに交換し、交尾成立日ならびに交尾成立日毎のグループ名を明記して表示した。分娩終了した雌は群分け後のラベルに交換して哺育 0 日の日付ならびに哺育 0 日毎のグループ名を明記した。

3.8 動物飼育

3.8.1 飼育環境

飼育室番号	: 301 号室
温度・湿度	: $22 \pm 3^{\circ}\text{C}$ (実測範囲 $20 \sim 23^{\circ}\text{C}$), $50 \pm 20\%$ (実測範囲 $42 \sim 54\%$)
換気回数	: 10 ~ 15 回/時間
照明時間	: 人工照明 12 時間 (8:00 ~ 20:00)

3.8.2 飼育器材および飼育方法

ケージの種類	: プラケット式金属製金網床ケージ (260W × 380D × 180H, mm) ただし、交尾成立雌動物については妊娠 17 日から哺育 13 日まで同ケージの金網床を小型受皿に代えて実験動物用床敷 (ホワイトフレーク, 日本チャールス・リバー株式会社, ロット番号 190625) を使用した。
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1 ケージあたりの収容動物数：検疫および馴化期間中は 2 匹ずつ、群分け後は 1 匹、交配期間中は雌雄各 1 匹、分娩後は 1 腹とした。

ケージ内動物数の選択理由：

摂餌量の例数を確保するため、および雄では闘争による傷害を避けるため、群分け後は単独飼育とした。

ケージ交換 : 馴化 13 日および群分け時に実施し、その後は以下の頻度で実施した。
雄およびサテライト群雌：投与 14 日および回復 1 日
主試験群雌：交尾成立後は妊娠 0 日および 14 日ならびに哺育 7 日、交尾不成立例は投与 28 日、以後 2 週間に 1 回。

受皿交換 : 週 2 回実施した。

小型受皿の交換 : 妊娠 20 日および哺育 7 日に実施した。

給餌器交換 : ケージ交換時に実施した。

自動給水装置の水抜き : 週 1 回実施した。

給水器 : 雄およびサテライト群の雌は尿検査時にのみ使用した。主試験群の雌

に使用した給水器については、2日に1回交換した。

室内の清掃

: 1日1回実施した。

室内の消毒

: 塩素系消毒薬およびヨウ素系消毒薬を1週間単位で交互に使用する清拭消毒を1日1回実施した。

3.8.3 飼料

種類・名称

: 固型飼料、CRF-1

ロット番号

: 190409, 190607, 190705

製造業者

: オリエンタル酵母工業株式会社

給餌方法

: 金属製給餌器を用いて自由に摂取させた。

ただし、剖検前日の夕刻からは全例を絶食させた。

汚染物質等の確認

: 試験に悪影響を及ぼす恐れのある汚染物質等の有無を使用した各ロットの飼料について分析した。分析はユーロフィン・フードアンドプロダクト・テスティング株式会社(分析報告書: Nos. AR-19-JP-001431-01-JA, AR-19-JP-002019-04-JA, AR-19-JP-002227-01-JA) および飼料製造業者(分析試験報告書: Nos. 19G03-006, 19G03-027, 19G03-040) が行い、分析データを飼料製造業者からロット毎に入手した。分析項目と許容値は試験施設の標準操作手順書に準拠した。分析の結果、いずれの項目にも許容値を超える値は認められなかった。

3.8.4 飲料水

種類

: 札幌市水道水

給水方法

: 自動給水装置あるいは給水器を用いて自由に摂取させた。

汚染物質等の確認

: 試験に悪影響を及ぼす恐れのある汚染物質等について、2019年7月1日および2020年1月6日に当該飼育室の配管の最末端から試料を採取して確認した。分析は日本衛生株式会社(水質検査結果表: Nos. A191367, A195309) が行い、分析データを入手した。分析項目と許容値は試験施設の標準操作手順書に準拠した。分析の結果、いずれの項目にも許容値を超える値は認められなかった。

3.9 被験物質の投与

3.9.1 投与量の設定

投与量

: 0(対照), 60, 250 および 1000 mg/kg/day

設定理由 : 先に実施した予備試験 (SR19179)³⁾において、被験物質を 0, 10, 30, 100, 300 および 1000 mg/kg/day の用量で 1 群雌雄各 3 匹の Crl:CD(SD) ラットに 14 日間反復経口投与した結果、1000 mg/kg 群で投与開始直後に雌雄の摂餌量に有意な低値または低値傾向がみられ、雌雄の肝臓、腎臓および雄の前立腺の絶対または相対重量に有意な高値がみられた。300 mg/kg 群でも、雄の肝臓の相対重量に有意な高値がみられた。一般状態、体重、血液学的検査、血液化学的検査および剖検では、雌雄ともにいずれの群にも毒性変化はみられなかった。以上のことから、本試験では、限度用量である 1000 mg/kg/day を高用量とし、以下公比約 4 として 250 および 60 mg/kg/day をそれぞれ中用量および低用量に設定した。

3.9.2 試験群の構成

試験群の構成と各群の動物番号は以下の通りとした。

試験群	投与量 (mg/kg)	濃度 (mg/mL)	投与容量 (mL/kg)	動物数(動物番号)		
				雄	雌	識別
<主試験群>						
対照	0	0	5.0	12 (10101~10112)	12 (50151~50162)	白
低用量	60	12	5.0	12 (10201~10212)	12 (50251~50262)	緑
中用量	250	50	5.0	12 (10301~10312)	12 (50351~50362)	青
高用量	1000	200	5.0	12 (10401~10412)	12 (50451~50462)	赤
<サテライト群>						
対照(投与終了時剖検例)	0	0	5.0		5 (50551~50555) ^b	白
(回復終了時剖検例)	0	0	5.0	5 (10101, 10105, 10108, 10109, 10112) ^a	5 (50556~50560) ^b	白
高用量(投与終了時剖検例)	1000	200	5.0		5 (50651~50655) ^b	赤
(回復終了時剖検例)	1000	200	5.0	5 (10401, 10405, 10407, 10409, 10412) ^a	5 (50656~50660) ^b	赤

対照群には、他の群と同様の方法で対照物質 (媒体) のみを投与した。

a : 主試験群から投与 21 日の体重に基づいて、各群の体重の平均値に近似するように、各群から 5 匹ずつ選抜した。ただし、交配中の雄動物は選抜から除いた。

b : 非交配群

3.9.3 投与

投与経路 : 経口投与

投与方法	: ディスポーザブル胃ゾンデおよびガラスシリンジを用いて強制的に胃内に投与した.
投与回数	: 1 日 1 回, 連日投与した.
投与時刻	: 8 : 58 ~ 12 : 03 上記投与時刻に分娩中の母動物には, 分娩終了後に投与した (最終投与時刻 13 : 49). ただし, 動物番号 50158 には妊娠 22 日の分娩中に投与した (6 項参照).
投与期間	: 雄 ; 交配 14 日前より 28 日間 雌 ; 交配前 14 日間および交尾成立までの交配期間, さらに交尾成立例は妊娠期間および分娩後 13 日 (哺育 0 日を分娩後 0 日として起算) までの期間, 妊娠 25 日まで分娩が認められない交尾成立例は妊娠 25 日までの期間, 交尾不成立例は交配期間終了後 23 日までの期間 サテライト群については 28 日間
回復 (休薬) 期間	: 投与期間終了後 14 日間
投与液量	: 各個体の投与液量は, 投与日に最も近い測定日の体重に基づいて算出した.

投与方法, 投与経路, 投与回数および投与期間ならびに回復期間の選定理由：
試験法ガイドラインに準拠した.

3.10 観察, 測定および検査項目

投与開始日を投与 1 日 (Day 1), 投与 28 日の翌日を回復 1 日 (Recovery Day 1) と起算し, 雄動物およびサテライト群の剖検日は投与 28 日の翌日 (Day 29) および回復 14 日の翌日 (Recovery Day 15) とした. 雌動物の交配後は, 交尾成立日を妊娠 0 日, 分娩終了日を哺育 0 日, 剖検日を分娩後 14 日 (Day 14 after delivery) と規定した.

3.10.1 反復投与毒性

3.10.1.1 一般状態観察

例数	: 全例
期間	: 投与 1 日から剖検日まで
頻度	: 投与期間中は投与前および投与後の 1 日 2 回, 回復期間中は午前および午後の 1 日 2 回, 剖検日は 1 回観察した [動物番号 50458 の妊娠 19 日の投与前を除く (6 項参照)].
観察方法	: 個々の動物の生死, 外観, 行動等について観察した. 異常が認められ

る場合は、その症状ならびに症状の発現および消失について記録した。衰弱の著しい動物はイソフルラン（動物用イソフルラン、マイラン製薬株式会社）麻酔下で腹部大動脈を切断して安楽死させ、剖検した。

3.10.1.2 詳細な状態観察

例数 : 全例
 時期 : 投与開始前ならびに投与 7, 14, 21 および 28 日
 主試験群の雌については、上記に加えて投与 35, 42 および 49 日
 回復期間中は、回復 7 および 14 日
 観察方法 : あらかじめ定めたスコアリング基準を用いてスコア化した観察結果を記録した。

観察項目およびその方法 :

- [1] 体位・姿勢、呼吸状態、振戦・痙攣、常同行動（回転・旋回）、異常行動（自咬）をケージの外から観察した。
- [2] 取り出し易さ、取扱い易さ、筋収縮性、立毛、被毛の状態、皮膚、眼・眼球および粘膜の外観、瞳孔径、流涙、流涎、その他分泌物の有無について、ケージから取り出す時に観察した。
- [3] 歩行、運動協調性、環境刺激に対する反応、探索行動（匂嗅ぎ・立上り）、排泄状態（排尿・排糞）、常同行動（身づくろい・ぐびふり）、異常行動（後ずさり・異常発声）、攻撃性について、オープンフィールド内で観察した。

3.10.1.3 機能検査

例数 : 各群の投与 21 日の体重の平均値に近似するように選抜した雄の各群 5 例（対照群および高用量群はサテライト群に選抜した動物）およびサテライト群（回復終了時剖検例）の雌ならびに主試験群の雌の分娩日の早いものから順に選抜した各群 5 例。
 時期 : 主試験群の雄およびサテライト群の雌は、投与 4 週（投与 25 日）に実施した。投与 4 週の検査の結果、高用量群の雄で自発運動量に有意差がみられたことから、雄については回復 2 週（回復 11 日）の検査を実施した。
 主試験群の雌は哺育 13 日に実施した。
 観察 / 測定方法 : あらかじめ定めたスコアリング基準を用いてスコア化した観察結果あ

るいは測定機器による測定値を記録した.

観察項目およびその方法 :

- [1] 刺激に対する感覚運動反応：検査台上で以下を観察した。
視覚刺激、触覚刺激、聴覚刺激、痛覚刺激、固有受容器刺激、空中正向反射
- [2] 握力：CPU ゲージ（アイコーエンジニアリング株式会社）を用いて前肢および後肢について各 3 回測定し、1 g 単位で記録した。
- [3] 自発運動量：自発運動量測定装置（スーパーメックスおよび CompAct、室町機械株式会社）を用いて、上記に引き続き、10 分間隔で 1 時間測定した。

3.10.1.4 体重測定

- 例数 : 全例
- 測定日 : 雄およびサテライト群の雌は、投与 1, 4, 7, 14, 21 および 28 日の投与前、回復 1, 7 および 14 日ならびに剖検日。
主試験群の雌は、投与 1, 4, 7, 14 日の投与前、妊娠 0, 7, 14 および 20 日の投与前、哺育 0, 4, 7 および 13 日の投与前ならびに分娩後 14 日の剖検日。ただし、妊娠 25 日まで分娩が認められなかった交尾成立例は妊娠 26 日（剖検日）、交尾不成立例については、投与 21, 28, 35, 42, 49 日の投与前および剖検日（投与 51 日の翌日）にも測定した。
衰弱による安楽死例については、安楽死実施日の体重を記録した。
- 測定方法 : 電子式上皿天秤（GX-2000、株式会社 エー・アンド・デイ）を用いて測定した。
- 体重増加量 : 以下の式により算出した。
 <雄およびサテライト群の雌>
 投与期間 ;

$$\text{体重増加量 (g)} = \text{投与 28 日体重 (g)} - \text{投与 1 日体重 (g)}$$
 回復期間 ;

$$\text{体重増加量 (g)} = \text{回復 14 日体重 (g)} - \text{回復 1 日体重 (g)}$$
<主試験群の雌>
 交配前投与期間 ;

$$\text{体重増加量 (g)} = \text{投与 14 日体重 (g)} - \text{投与 1 日体重 (g)}$$
 妊娠期間 ;

体重増加量 (g)=妊娠 20 日体重 (g)－妊娠 0 日体重 (g)

哺育期間 :

体重増加量 (g)=哺育 13 日体重 (g)－哺育 0 日体重 (g)

3.10.1.5 摂餌量測定

- 例数 : 全例
- 測定日 : 雌雄とも交配中の週および剖検日を除き、体重測定と同じ日に実施した。
- 測定方法 : 電子式上皿天秤 (GX-2000, 株式会社 エー・アンド・デイ) を用いて測定した。
投与 1 日または回復 1 日に適当量を測定後ケージ毎に給餌し、その後は測定日に残餌量および／または給餌量を測定した。
次式より、摂餌量 (g/day) を算出した。ただし、哺育期間中の雌については、1 腹あたりの摂取量として表わした。
摂餌量 (g/day) = [給餌量 (g)－残餌量 (g)] / 測定日間の日数 (day)

3.10.1.6 尿検査

- 例数 : 雄は機能検査と同一の各群 5 例について、雌はサテライト群の回復終了時剖検例
- 時期 : 投与 4 週 (投与 22 ~ 23 日) および回復 2 週 (回復 11 ~ 12 日)。
- 採尿方法 : 非絶食下でラット用代謝ケージ (KN-646, B-1 型、株式会社夏目製作所) を用いて採尿し、投与直後から約 3 時間の蓄尿で [1] ~ [9] を、また約 21 時間の蓄尿で [10], [11] を実施した。[9] については、遠心分離 (約 400 × g, 5 分, 4°C) して、沈査を検査した。採取した尿は検査終了後廃棄した。

検査項目および検査方法 :

[1]	pH	試験紙法
[2]	蛋白 (Protein)	試験紙法
[3]	糖 (Glucose)	試験紙法
[4]	ケトン体 (Ketone body)	試験紙法
[5]	ウロビリノーゲン (Urobilinogen)	試験紙法
[6]	ビリルビン (Bilirubin)	試験紙法
[7]	潜血反応 (Occult blood)	試験紙法
[8]	色調 (Color)	肉眼観察
[9]	尿沈渣 (Urinary sediments)	Sternheimer 染色法

[10] 尿量 (Urine Volume)	容量測定
[11] 比重 (Specific gravity)	屈折計法
[1] ~ [7] マルティスティックス、シーメンスヘルスケア・ダイアグノスティクス株式会社	
[9] 顕微鏡 BH-2、オリンパス株式会社	
[11] 尿比重屈折計ユリコン-S、株式会社アタゴ	

3.10.1.7 血液学的検査

例数	: 主試験群は各群 5 例 (主試験群の雄は機能検査に用いた動物以外から動物番号の若い順に選抜した。主試験群の雌は機能検査と同一例), サテライト群は各群 4 または 5 例 (安楽死例を除く全例)
時期	: 割検時 [主試験群の雄およびサテライト群の雌 (投与終了時剖検例) は投与 28 日の翌日, 主試験群の雌は分娩後 14 日, サテライト群の雄および雌 (回復終了時剖検例) は回復 14 日の翌日] に採血した。
検査方法	: 夕刻からの一晩の絶食下 (16 ~ 19 時間) でラットをイソフルラン麻酔し, 腹部大動脈より採血した。検査項目のうち [1] ~ [10] については EDTA・2K (ベノジェクト II 真空採血管, テルモ株式会社) で処理した血液約 1 mL を用い, [11], [12] については 3.8% クエン酸ナトリウムで処理した血液約 1 mL (3.8% クエン酸ナトリウム溶液 0.1 mL + 血液 0.9 mL) を遠心分離 (約 2000 × g, 10 分, 4°C) し, 得られた血漿を用いた。主試験群の雌の血漿は, 採取後凍結保存 (-80°C 設定) し, 測定時に融解して用いた。得られた血液および血漿は検査終了後廃棄した。全例の白血球分画が得られたため, 白血球塗抹標本は作製しなかった。

検査項目および検査方法 :

[1] 赤血球数 (RBC)	電気抵抗検出法
[2] ヘマトクリット値 (HCT)	電気抵抗検出法
[3] ヘモグロビン濃度 (HGB)	SLSヘモグロビン法
[4] 平均赤血球容積 (MCV)	RBC, HCT値より算出
[5] 平均赤血球ヘモグロビン量 (MCH)	RBC, HGB値より算出
[6] 平均赤血球ヘモグロビン濃度 (MCHC)	HCT, HGB値より算出
[7] 血小板数 (Platelet)	電気抵抗検出法
[8] 網赤血球数 (Reticulocyte)	フローサイトメトリー法
[9] 白血球数 (WBC)	フローサイトメトリー法
[10] 白血球分画 (Differential count of WBC)	フローサイトメトリー法
1 好中球 (Neutrophil, 10 ² /μL)	
2 好酸球 (Eosinophil, 10 ² /μL)	
3 好塩基球 (Basophil, 10 ² /μL)	
4 単球 (Monocyte, 10 ² /μL)	

5 リンパ球 (Lymphocyte, 10²/μL)

- [11] プロトロンビン時間 (PT) トロンボプラスチン法
 [12] 活性化部分トロンボプラスチン時間 (APTT) エラジン酸法
-

[1] ~ [10] 自動血球分析装置 XT-2000 iV, シスメックス株式会社

[11], [12] 全自動血液凝固測定装置 CA-620, シスメックス株式会社

3.10.1.8 血液化学的検査

- 例数 : 血液学的検査と同一の各群 4 または 5 例. ただし, T4 濃度測定用試料の採取は安樂死例を除く全例について実施し, 主試験群の雄のみ測定を実施した.
- 時期 : 剖検時に採血した.
- 検査方法 : 夕刻からの一晩の絶食下 (16 ~ 20 時間) でラットをイソフルラン麻酔し, 腹部大動脈より採血した. 検査項目のうち [1], [5] については血液 1 mLあたりヘパリンナトリウム (ヘパリンナトリウム注 N「AY」, 1000 単位/mL, エイワイファーマ株式会社) 約 20 単位で処理後, 遠心分離 (約 2000 × g, 10 分, 4°C) して得られた血漿を用いて検査した. 他の項目については分離剤入り試験管 (セパクリーン A, 栄研化学株式会社) に血液を採取し, 遠心分離 (約 2000 × g, 10 分, 4°C) して得られた血清を用いて検査した. 主試験群の雌およびサテライト群の回復終了時剖検例の雌雄の血清および血漿は, 採取後凍結保存 (-80°C 設定) し, 測定時に融解して用いた. また, 得られた血清の一部をホルモン測定用として, ポリプロピレン製チューブ 4 本に約 150 μL ずつ分注して凍結保存 (-80°C 設定) し, 主試験群の雄について測定時に融解して [21] の項目に用いた. 主試験群の雄および生後 13 日の新生児の測定の結果, 被験物質投与に関連する変化は認められなかったことから, 主試験群の雌およびサテライト群の雌雄の動物の T4 濃度測定は行わなかった. 検査終了後, ホルモン測定用血清は -60°C 以下で, その他の血漿および血清は -20°C 以下で凍結保存し, 試験終了日までに廃棄した.

検査項目および検査方法 :

-
- | | |
|-----------------------|--------------------------------|
| [1] AST | JSCC 法 |
| [2] ALT | JSCC 法 |
| [3] アルカリホスファターゼ (ALP) | JSCC 法 |
| [4] γ-GTP | L-γ-グルタミル-3-カルボキシ-4-ニトロアニリド基質法 |

[5]	グルコース (Glucose)	ヘキソキナーゼ法
[6]	総コレステロール (T-Chol)	酵素法
[7]	トリグリセリド (TG)	遊離グリセロール消去法
[8]	総ビリルビン (T-Bil)	酵素法
[9]	総胆汁酸 (TBA)	酵素サイクリング法
[10]	尿素窒素 (UN)	ウレアーゼ・LED 法
[11]	クレアチニン (Crea)	酵素法
[12]	ナトリウム (Na)	イオン選択電極 (ISE) 法
[13]	カリウム (K)	イオン選択電極 (ISE) 法
[14]	クロール (Cl)	イオン選択電極 (ISE) 法
[15]	カルシウム (Ca)	OCPC 法
[16]	無機リン (IP)	Fiske-Subba Row 法
[17]	総蛋白 (TP)	ビウレット法
[18]	A/G 比 (A/G ratio)	蛋白分画より算出
[19]	アルブミン (Albumin)	総蛋白と蛋白分画より算出
[20]	蛋白分画 (Protein fraction)	アガロースゲル電気泳動法
1	アルブミン (Albumin, %)	
2	α_1 -グロブリン (α_1 -G, %)	
3	α_2 -グロブリン (α_2 -G, %)	
4	β -グロブリン (β -G, %)	
5	γ -グロブリン (γ -G, %)	
[21]	甲状腺ホルモン (T4)	ELISA 法 (測定回数 : n=2)

[1] ~ [17] 自動分析装置 7180 形, 株式会社日立ハイテクノロジーズ

[18], [20] 全自動電気泳動分析装置エパライザ 2 ジュニア, 株式会社ヘレナ研究所

[21] マイクロプレートリーダ SH-1200, コロナ電気株式会社

3.10.1.9 病理検査

3.10.1.9.1 剖検

例数	: 全例
時期	: 主試験群の雄およびサテライト群の雌 (投与終了時剖検例) は投与 28 日の翌日, 主試験群の雌は分娩後 14 日, サテライト群の雄および雌 (回復終了時剖検例) は回復 14 日の翌日に剖検した. ただし, 衰弱例は安楽死させた日に, 交尾不成立例は交配期間終了後 24 日 (投与 51 日の翌日) に, 妊娠 25 日まで分娩が認められない交尾成立例は妊娠 26 日に, 異常出産例は発見後速やかに剖検した.
検査方法	: 体外表を観察し, イソフルラン麻酔下で, 腹部大動脈より採血後, 放血により安楽死させ, 全身の器官・組織を肉眼的に観察した. 主試験群の雌では, 着床数を数えた. 以下の器官・組織を 10% 中性緩衝ホル

マリン液に固定・保存した。肺については、気管から固定液を注入後固定した。ただし、眼球およびハーダー腺はデビッドソン液で固定・保存し、精巣および精巣上体はブアン液で固定、70%エタノールに保存した。左右のある器官については、左右とも固定・保存した。

性周期の確認 : 雌の全例について剖検日の剖検前に膣垢を採取し、ギムザ染色を施して、光学顕微鏡下で観察して性周期段階を確認した。このデータは器官重量または病理組織学的評価の補助とした。

器官・組織名 : 脳 (大脑, 小脳および脳橋), 脊髄, 下垂体, 胸腺, 甲状腺, 上皮小体, 副腎, 脾臓, 心臓, 食道, 胃, 肝臓, 膀胱, 顎下腺, 十二指腸, 空腸, 回腸 (ペイエル板を含む), 盲腸, 結腸, 直腸, 気管, 肺および気管支, 腎臓, 膀胱, 精巣, 精巣上体, 前立腺, 精嚢 (凝固腺含む), 卵巣, 子宮 (角部および頸部), 膣, 眼球およびハーダー腺, 乳腺 (右腹部), 大腿骨 (骨髓を含む, 右), 腸間膜リンパ節, 下頸リンパ節, 骨格筋 (大腿二頭筋, 右) および坐骨神経 (右)。

3.10.1.9.2 器官重量測定

例数 : 安楽死例を除く全例

時期 : 剖検時

測定方法 : 電子式上皿天秤 (GR-200, 株式会社 エー・アンド・ディ) を用いて、以下の器官の重量を測定した。左右のある器官は左右合せて測定した。ただし、甲状腺、下垂体および精嚢は固定後に測定した。

器官・組織名 : 脳, 心臓, 肝臓, 腎臓, 精巣, 精巣上体, 精嚢 (凝固腺含む); 以上 (g)
下垂体, 甲状腺 (上皮小体含む), 脾臓, 胸腺, 副腎, 前立腺, 卵巣, 子宮; 以上 (mg)

相対重量の算出 : 絶対重量と剖検日に測定した体重から相対重量を算出した。
相対重量 ($g/100\text{ g}$ または $\text{mg}/100\text{ g}$)
 $= [\text{絶対重量 (g または mg)} / \text{剖検日体重 (g)}] \times 100$

3.10.1.9.3 病理組織学的検査

例数 : 主試験群の雌雄およびサテライト群の雌 (投与終了時剖検例) は、剖検時に固定・保存した対照群および高用量群の全器官・組織について標本作製を実施し、全例について鏡検した。鏡検の結果、高用量群の雄の腎臓および雌の肝臓に被験物質投与に関連すると考えられる変化が認

められたことから、低用量および中用量および回復終了時剖検例の雄の腎臓および雌の肝臓について検査を実施した。また、安楽死例（動物番号 50158, 50354, 50461 および 50652）、不妊例（動物番号 50360）および交尾不成立例（動物番号 10104, 10305, 50154 および 50355）の全器官・組織についても鏡検した。

検査方法 : パラフィン包埋後薄切し、ヘマトキシリン・エオジン染色標本を作製して鏡検した。雄の腎臓では、近位尿細管上皮の好酸性小体を同定するべく、代表例 [1000 mg/kg 群の 1 例（動物番号 10402）] について α 2u-グロブリン抗体を用いた免疫染色標本を作製して鏡検した。

3.10.2 生殖発生毒性

3.10.2.1 性周期検査

例数 : 主試験群の雌の全例
期間 : 投与開始日から交尾成立まで。
 　　交尾不成立例については交配 14 日まで
方法 : ギムザ染色による膣垢塗抹標本を作製し、光学顕微鏡下で性周期段階を観察した。
判定 : 性周期の各段階（発情前期、発情期、発情後期および発情間期）を 4 日から 6 日の間隔で繰り返すものを正常とした。発情期が 4 日以上または発情後期および発情間期が 7 日以上継続してみられるものをそれぞれ連続発情または連続非発情とし、異常と判定した。
算出 : 投与 1 日から投与 14 日までの 14 日間にについて発情期間隔、発情回数および性周期異常の動物数を算出した。

3.10.2.2 生殖能検査

例数 : 主試験群の雌雄の全例
交配組み合せ : 同一群の雌雄を、雌の動物番号末尾 2 桁が雄の動物番号末尾 2 桁に 50 を足したものとなるよう組み合わせた。
時期・方法 : 投与 14 日を交配開始日、交配開始日の翌日を交配 1 日とし、交配開始日の夕刻から、交配に組み合せた雌雄を、交尾が確認されるまで 14 日間を限度として連続同居させた。
交尾成立の確認方法 : 膣内または受皿上に落下した膣栓、あるいは膣垢スメア標本中の精子確認により判定した。いずれかが認められた日を妊娠 0 日とした。同

居開始から交尾成立までの所要日数を計数した。

次式から群毎に交尾率を算出した。

$$\text{雄の交尾率 (\%)} = (\text{交尾成立雄数} / \text{同居させた雄数}) \times 100$$

$$\text{雌の交尾率 (\%)} = (\text{交尾成立雌数} / \text{同居させた雌数}) \times 100$$

受胎能 : 妊娠の確認を分娩の有無および剖検時に子宮内の着床痕の有無により行った。動物番号 50360 については、剖検時に子宮内の着床痕が確認されなかつたため不妊と判断した。

次式から群毎に受胎率を算出した。

$$\text{雄の受胎率 (\%)} = (\text{雌を妊娠させた雄数} / \text{交尾成立雄数}) \times 100$$

$$\text{雌の受胎率 (\%)} = (\text{妊娠雌数} / \text{交尾成立雌数}) \times 100$$

3.10.2.3 分娩および哺育状態観察

例数 : 交尾成立した雌の全例

分娩観察 : 交尾が確認された雌動物の全例について、分娩状態を妊娠 21 日から 25 日まで、毎日少なくとも 3 回 (9:00, 13:00 および 17:00) 観察した。妊娠動物は全例自然分娩させた。

分娩終了の確認 : 9:00 に母動物が児を巣の中に集めて腹の下に抱え込んでいるのが観察された場合に分娩終了とし、その日を哺育 0 日 (生後 0 日) とした。ただし、動物番号 50354 はこの時点では生存児がみられなかつたが、前日の分娩観察の際に分娩が終了しているのが確認されていることから、生後 0 日とした。

出産率 : 1 匹以上の生存児を出産したものを正常出産とした。出生児が全て死亡している場合 (死産) は異常出産とした。生存児を出産したものであつても、難産などの分娩異常がみられる場合や分娩終了の確認ができない場合には異常出産とした。次式から群毎に出産率を算出した。

$$\text{出産率 (\%)} = (\text{正常出産雌数} / \text{妊娠雌数}) \times 100$$

妊娠期間の算出 : 妊娠 0 日から哺育 0 日までの期間を日数で表わした。

出産児の観察 : 生後 0 日のすべての出産児について生死を確認し、外表を観察した。腹毎に生存児数と死亡児数とを計数し、それらの合計を出産児数とした。次式から腹毎に分娩率および生存児の外表異常児出現率を算出した。

$$\text{分娩率 (\%)} = (\text{生後 0 日の出産児数} / \text{着床数}) \times 100$$

$$\text{外表異常児出現率 (\%)} = (\text{外表異常児数} / \text{出産生児数}) \times 100$$

外表異常児を持つ腹の頻度 = 外表異常児を持つ腹数 / 出産動物数

出産児の性比の算出 : 生後 0 日に個々の児動物の性を肛門と生殖突起の間の長さで判定した。群毎に以下を算出した。

出産児の性比 (%) = (雄出産児数 / 出産児数) × 100

生存出産児の性比 (%) = (雄生存出産児数 / 生存出産児数) × 100

3.10.2.4 哺育児数の調整

例数 : 全腹

時期 : 生後 4 日

調整方法 : 各腹の哺育児数が 8 四となるように雌雄別に無作為に選抜した。選抜する哺育児の数は原則として雌雄同数としたが、1 腹の雄または雌の哺育児数が 4 四未満の場合は総数が 8 四となるよう(例えば雄 3 四、雌 5 四)に調整した。1 腹の哺育児数が 8 四以下の場合は、そのまま哺育させた。選抜されなかった哺育児は、採血する動物は断頭で、その他の動物はペントバルビタールナトリウムの腹腔内投与により安楽死させた。

3.10.2.5 新生児の一般状態観察

例数 : 全例

頻度 : 1 回／日

期間 : 生後 0 日から生後 13 日(剖検日)まで

観察方法 : 生存または死亡の確認、一般状態を観察した。

死亡例は発見後速やかに剖検し、Whole body を 10% 中性緩衝ホルマリン液で固定・保存した。

なお、分娩中に安楽死させた腹(動物番号 50158)の出産生存児および生存胎児は、ペントバルビタールナトリウムの腹腔内投与により安楽死させた(6 項参照)。

新生児生存率の算出 : 生後 0, 4 および 13 日の新生児生存率を次式から腹毎に算出した。

生後 0 日生存率 (%) = (生後 0 日生存児数 / 出産児数) × 100

生後 4 日生存率 (%)

= (生後 4 日生存児数 / 生後 0 日生存児数) × 100

生後 13 日生存率 (%)

= (生後 13 日生存児数 / 生後 4 日に選抜した児数) × 100

3.10.2.6 新生児の体重測定

例数 : 生存児全例
 時期 : 生後 0, 4, 7 および 13 日
 測定方法 : 電子式上皿天秤 (GX-2000, 株式会社エー・アンド・ディ) を用いて個体別に測定し, 0.1 g まで記録した. 雌雄別に腹あたりの平均体重を求めた.

3.10.2.7 新生児の肛門生殖突起間距離

例数 : 生存児全例
 時期 : 生後 4 日
 測定方法 : 個体別に肛門と生殖突起の間の長さを計測して記録した. 雌雄別に腹あたりの平均肛門生殖突起間距離を求めた. 加えて, 個々の平均肛門生殖突起間距離を体重の立方根で除した値を求め, 雌雄別に腹あたりの平均を求めた.

3.10.2.8 新生児の乳頭数

例数 : 雄生存児全例
 時期 : 生後 13 日
 計数方法 : 個々の新生児の乳頭数を計数した. 腹あたりの平均乳頭数を求めた.

3.10.2.9 新生児の血清 T4 濃度測定

例数 : 各腹の生存児 2 例
 時期 : 生後 4 日 (選抜されなかった哺育児) および生後 13 日
 血清採取 : 腹毎に生存児を断頭により安楽死させ, 遠沈管に血液を採取してプールし, 遠心分離 (約 $2000 \times g$, 10 分, 4°C) して血清を得た. ただし, 採血の対象となる生存児が 1 匹の場合は 1 匹から血清を採取し, 採血の対象となる生存児がない場合は血清の採取は行わなかった. 採取した血清は, ポリプロピレン製チューブ 2 本に約 50 μL ずつ (生後 4 日) または 4 本に約 100 μL ずつ (生後 13 日) 分注して凍結保存 (-80°C 設定) し, 測定時に融解して用いた. 検査終了後の血清は, 凍結保存 (-80°C 設定) し, 試験終了日までに廃棄した.
 測定方法 : ELISA 法で, 生後 13 日の新生児の血清について T4 濃度を測定した ($n=2$). 主試験群の雄および生後 13 日の新生児の測定の結果, 被験物質投与に関連する変化は認められなかったことから, 生後 4 日の新生

児の T4 濃度測定は行わなかった.

3.10.2.10 新生児の剖検

時期 : 生後 13 日
 例数 : 全例
 検査方法 : 体外表（口腔内を含む）を観察し、採血する動物は断頭で、その他の動物についてはペントバルビタールナトリウムの腹腔内投与により安樂死させ、全身の器官・組織を肉眼的に観察した。原則として各腹雌雄 1 例について、甲状腺を 10% 中性緩衝ホルマリンに固定・保存した。ただし、動物番号 50362 (生存児 雄 7, 雌 1) では、雌の甲状腺は保存しなかった。

3.11 統計学的方法

コンピュータシステム (MiTOX) を用いて実施した。

主試験群における握力 (3 回の平均), 自発運動量, 体重, 体重増加量, 摂餌量, 尿量, 血液学的検査, 血液化学的検査, 器官の絶対重量および相対重量, 発情期間隔, 発情回数, 交尾所要日数および着床数, 出産児数, 出産時の生存児数および死亡児数, 分娩率, 妊娠期間および新生児の雌雄別体重, 肛門生殖突起間距離, 乳頭数, 外表異常児出現率の成績について群平均および標準偏差を算出し, Bartlett の検定法を行い, 等分散性を解析した。等分散 ($p \geq 0.05$) の場合は一元配置分散分析法で解析し, 不等分散 ($p < 0.05$) の場合は Kruskal-Wallis の検定法で解析した。一元配置分散分析の結果, 有意差がみられた場合 ($p < 0.1$) は Dunnett の検定法を用いて対照群と比較した。Kruskal-Wallis 法の解析の結果, 有意差がみられた場合 ($p < 0.1$) は Steel の検定法を用いて対照群と比較した。ただし, 新生児の生存率は別途統計解析システム (三研システム株式会社) あるいは SAS システム (Version 9.3, SAS Institute Japan 株式会社) を用いて上記と同様の検定を実施した。なお, 新生児の雌雄別体重, 外表異常児出現率, 生存率, 肛門生殖突起間距離および乳頭数については, 1 腹を標本単位として処理した。

主試験群における詳細な状態観察, 刺激に対する感覚運動反応, 尿量を除く尿検査の成績について, Kruskal-Wallis の検定法で解析し, 有意差がみられた場合 ($p < 0.1$) は Steel の検定法を用いて対照群と比較した。

性周期の異常の発現率, 交尾率, 受胎率, 出産率, 生後 0 日の出産児および生存児の性比および外表面異常児を持つ腹の頻度ならびに病理組織学的検査 (主試験群およびサテライト群) については, Fisher の正確確率検定法を用いた。

サテライト群における握力 (3 回の平均), 自発運動量, 体重, 体重増加量, 摂餌量, 尿量,

血液学的検査、血液化学的検査、器官の絶対重量および相対重量の成績について、群平均および標準偏差を算出し、F 検定により等分散性を解析した。等分散 ($p \geq 0.05$) の場合は Student の t 検定、不等分散 ($p < 0.05$) の場合は Welch の検定を用いて対照群と比較した。

サテライト群における詳細な状態観察、刺激に対する感覚運動反応、尿量を除く尿検査の成績について、Wilcoxon の順位和検定を用いて対照群と比較した。

主試験群の雌で不妊が確認された動物については、妊娠期間の体重、体重増加量および摂餌量、器官重量および病理組織学的検査のデータを統計検定から除外した。交尾が成立しなかつた雌については、器官重量および病理組織学的検査のデータを統計検定から除外した。試験途中に安楽死させた動物については、病理組織学的検査のデータを統計検定から除外した。

対照群との比較検定については、5%未満を有意とした。

3.12 コンピュータシステムの利用

以下に示すデータの収集には MiTOX を使用した。

オンラインデータ ; 親動物の一般状態、詳細な状態観察、機能検査（刺激に対する感覚運動反応、握力。ただし、主試験群の雌を除く）、体重、摂餌量（雌のサテライト群の投与 14 日の給餌量を除く）、血液学的検査（PT, APTT を除く）、血液化学的検査（T4 濃度を除く）、器官重量、病理組織学的検査、新生児の体重、乳頭数

オフラインデータ ; 機能検査（自発運動量）、機能検査（主試験群の雌の刺激に対する感覚運動反応および握力）、摂餌量（雌のサテライト群の投与 14 日の給餌量）、尿検査、血液学的検査（PT, APTT）、血液化学的検査（T4 濃度）、性周期検査、生殖能検査、着床数、生存児数、死亡児数、親動物の剖検、新生児の一般状態、肛門生殖突起間距離、外表異常および性別

コンピュータプロトコールには、データ収集の項目、日程等を登録した。なお、オンラインにより生データを収集する際、不測の事態が発生した場合は、オフラインで作業を実施した。

4 成績

4.1 反復投与毒性

4.1.1 一般状態

一般状態の成績を Table 1-1 ~ 1-9, Appendix 1-1 ~ 1-32 に示す。

[投与期間]

(1) 雄：主試験群

1000 mg/kg 群では、投与 15 および 16 日に 1 例で外尿道口周囲被毛汚染がみられた。対照群、60 および 250 mg/kg 群では、いずれの動物にも異常は認められなかった。

(2) 雌：主試験群

1000 mg/kg 群では、交配前期間の投与 4 から 10 日、15 および 16 日の間に、3 例で外尿道口周囲被毛汚染、1 例で口周囲被毛汚染がみられた。また、哺育 3 日に 1 例（動物番号 50461）で呼吸緩徐および自発運動の低下がみられ、この動物は衰弱が著しいことから安楽死させた。その他に、哺育 3 日以降に 1 例で投与後に流涎がみられた。

250 mg/kg 群では、1 例（動物番号 50354）で哺育 0 日に外尿道口/肛門周囲被毛汚染がみられた。この動物には異常出産（死産）がみられたことから、前述の変化は分娩の異常による全身状態の悪化に関連するものと考えられた。1000 mg/kg 群には分娩の異常はみられないことから、この変化は偶発的なものと考えられた。この動物は、哺育 0 日に異常出産のため安楽死させた。同群の他の動物には異常はみられなかった。

60 mg/kg 群では、異常はみられなかった。

なお、対照群の 1 例（動物番号 50158）で妊娠 23 日の分娩中に呼吸促拍および自発運動の低下がみられた。この動物は難産と判断して安楽死させた（娩出物：生存児 9 匹、子宮内：着床 14、生存胎児 1、死亡胎児 3、胎盤 11）。

(3) 雌：サテライト群（非交配群）

1000 mg/kg 群では、1 例（動物番号 50652）で投与 6 日から外尿道口周囲被毛汚染がみられた。投与 7 日にはさらに呼吸緩徐および自発運動の低下がみられ、衰弱が著しいことから安楽死させた。対照群の動物には異常はみられなかった。

[回復期間]

(1) 雄：サテライト群

対照群および 1000 mg/kg 群のいずれの動物にも異常はみられなかった。

(2) 雌：サテライト群（非交配群）

対照群および 1000 mg/kg 群のいずれの動物にも異常はみられなかった。

4.1.2 詳細な状態観察

詳細な状態観察の成績を、Table 2-1 ~ 2-6, Appendix 2-1 ~ 2-70（ケージの外から）、Table 3-1 ~ 3-6, Appendix 3-1 ~ 3-70（ケージから取り出す時）および Table 4-1 ~ 4-6, Appendix 4-1 ~ 4-70（オープンフィールド内）にそれぞれ示す。

[投与期間]

(1) 雄：主試験群

60 mg/kg 群で、投与開始前の排尿に対照群と比較して有意な低値がみられたが、投与開始前であることから、偶発的な変化と考えられた。250 および 1000 mg/kg 群では、いずれの項目にも有意な差はみられなかった。

(2) 雌：主試験群

いずれの項目にも被験物質投与群と対照群の間に有意な差はみられなかった。

(3) 雌：サテライト群（非交配群）

1000 mg/kg 群では、投与 7 日の排尿に対照群と比較して有意な低値がみられたが、一過性の変化であり、主試験群ではみられないことから、偶発的な変化と考えられた。

[回復期間]

(1) 雄：サテライト群

1000 mg/kg 群では、いずれの項目にも対照群と比較して有意な差はみられなかった。

(2) 雌：サテライト群（非交配群）

1000 mg/kg 群では、いずれの項目にも対照群と比較して有意な差はみられなかった。

4.1.3 機能検査

刺激に対する感覚運動反応の成績を Table 5-1 ~ 5-4, Appendix 5-1 ~ 5-12, 握力の成績を Table 6-1 ~ 6-4, Appendix 6-1 ~ 6-12, 自発運動量の成績を Table 7-1 ~ 7-4, Appendix 7-1 ~ 7-12 に示す。

[投与期間]

(1) 雄：主試験群（投与 4 週）

1000 mg/kg 群では、自発運動量の 10-20 分の間に対照群と比較して有意な高値がみられたが、一過性の変化であること、0-60 分には有意な差は認められなかつたことから偶発的な変動と考えられた。同群のその他の項目には有意な差はみられなかつた。60 および 250 mg/kg 群では、いずれの項目にも有意な差はみられなかつた。

(2) 雌：主試験群（哺育 13 日）

250 mg/kg 群で、自発運動量の 30-40 分の間に対照群と比較して有意な低値がみられたが、用量依存性がみられないことから被験物質投与との関連はないと考えられた。同群のその他の項目には変化は認められなかつた。60 および 1000 mg/kg 群では、いずれの項目にも有意な差はみられなかつた。

(3) 雌：サテライト群（非交配群、投与 4 週）

1000 mg/kg 群では、いずれの項目にも対照群と比較して有意な差はみられなかつた。

[回復期間]

(1) 雄：サテライト群（回復 2 週）

1000 mg/kg 群では、いずれの項目にも対照群と比較して有意な差はみられなかった。

4.1.4 体重

体重を Figure 1-1 ~ 1-3, Table 8-1 ~ 8-7, Appendix 8-1 ~ 8-22 に示す。

[投与期間]

(1) 雄：主試験群

1000 mg/kg 群では、対照群と比較して体重に有意な差はみられなかつたが、投与期間の体重増加量に有意な低値がみられた。60 および 250 mg/kg 群では、体重、体重増加量のいずれにも有意な差はみられなかつた。

(2) 雌：主試験群

1000 mg/kg 群では、交配前期間の平均体重に対照群と比較して有意な差はみられなかつたが、一部の動物では投与 4 または 7 日に、一過性ではあるが著しい体重減少がみられた（投与開始日からの体重減少量：動物番号 50452 最大-36 g, 動物番号 50457 最大-21 g, 動物番号 50462 最大-68 g）。妊娠期間および哺育期間の体重は低値で推移し、妊娠 0 から 14 日および哺育 0 日には有意な差がみられた。いずれの期間においても、体重増加量には有意な差はみられなかつた。60 および 250 mg/kg 群では、体重、体重増加量のいずれにも有意な差はみられなかつた。

(3) 雌：サテライト群（非交配群）

1000 mg/kg 群では、安楽死させた 1 例（動物番号 50652）で、投与開始から安楽死実施日（投与 7 日）まで著しい体重減少がみられた（投与開始日からの体重減少量：-65 g）。群平均では、体重増加量には対照群と比較して有意な差はみられなかつたが、体重では投与期間を通して有意な低値がみられた。

[回復期間]

(1) 雄：サテライト群

1000 mg/kg 群では、回復 1 日以降の体重に対照群と比較して有意な低値がみられた。しかし、回復期間中の体重増加量には有意差はないものの、対照群に対する比率は 138 % であり、回復傾向にあると考えられた。

(2) 雌：サテライト群（非交配群）

1000 mg/kg 群では、体重および体重増加量に対照群と比較して有意な差はみられなかつた。

4.1.5 摂餌量

摂餌量を Figure 2-1 ~ 2-3, Table 9-1 ~ 9-7, Appendix 9-1 ~ 9-22 に示す。

[投与期間]

(1) 雄：主試験群

1000 mg/kg 群では、投与 28 日に対照群と比較して有意な高値がみられた。60 および 250 mg/kg 群では、有意な差はみられなかった。

(2) 雌：主試験群

1000 mg/kg 群では、一部の動物（動物番号 50452, 50457 および 50462）で、投与 4 または 7 日に一過性ではあるが著しい摂餌量の低値がみられ、群平均でも投与 4 および 7 日に対照群と比較して有意な低値がみられた。一方、同群の妊娠 20 日では、有意な高値がみられた。250 mg/kg 群では、投与 7 日に有意な低値がみられたが、体重の低値を伴わないことから毒性学的意義はないと考えられた。60 mg/kg 群では、有意な差はみられなかった。

(3) 雌：サテライト群（非交配群）

1000 mg/kg 群では、安楽死させた 1 例（動物番号 50652）で投与 7 日まで著しい低値がみられ、群平均でも投与 4 および 7 日に対照群と比較して有意な低値がみられた。

[回復期間]

(1) 雄：サテライト群

1000 mg/kg 群では、投与 28 日に引き続き回復 7 日に対照群と比較して有意な高値がみられたが、回復 14 日には有意な差はなく、回復傾向にあると考えられた。

(2) 雌：サテライト群（非交配群）

1000 mg/kg 群では、対照群と比較して有意な差はみられなかった。

4.1.6 尿検査

尿検査の成績を Table 10-1 ~ 10-22, Appendix 10-1 ~ 10-40 に示す。

[投与 4 週]

(1) 雄：主試験群

1000 mg/kg 群では、尿量に対照群と比較して有意な高値がみられた。60 および 250 mg/kg 群では、いずれの項目にも有意な差はみられなかった。

(2) 雌：サテライト群（非交配群）

1000 mg/kg 群では、対照群と比較して pH に有意な低値、尿量に有意な高値がみられた。

[回復 2 週]

(1) 雄：サテライト群

1000 mg/kg 群では、いずれの項目にも対照群と比較して有意な差はみられなかった。

(2) 雌：サテライト群（非交配群）

1000 mg/kg 群では、いずれの項目にも対照群と比較して有意な差はみられなかった。

4.1.7 血液学的検査

血液学的検査の成績を Table 11-1 ~ 11-5, Appendix 11-1 ~ 11-14 に示す。

[投与期間終了時]

(1) 雄：主試験群

1000 mg/kg 群では、対照群と比較して血小板数に有意な高値、プロトロンビン時間に有意な延長がみられた。このうち血小板数の高値については、血液学的検査で炎症または造血の亢進を示唆する変化がないこと、骨髄の病理組織学的検査でも異常がみられないこと、個々の値は試験施設の背景データ（平均値±2SD, 110.30±24.72 × 10⁴/μL, 例数 40）⁴⁾ の範囲内であることから、毒性学的意義はないと考えられた。プロトロンビン時間の変化については、僅かな変化で出血傾向を示唆する所見もみられること、血液化学的検査で肝機能の低下を示唆する変化がなく、病理組織学的検査でも肝臓に被験物質投与に関連する変化がみられないこと、個々の値は試験施設の背景データ（平均値±2SD, 19.42±8.04 sec, 例数 40）⁴⁾ の範囲内であることから、毒性学的意義はないと考えられた。60 および 250 mg/kg 群では、いずれの項目にも有意な差はみられなかった。

(2) 雌：主試験群

いずれの項目にも被験物質投与群と対照群の間に有意な差はみられなかった。

(3) 雌：サテライト群（非交配群）

1000 mg/kg 群では、対照群と比較してプロトロンビン時間に有意な短縮がみられたが、臨床的意義の乏しい変化であり、個々の値は試験施設の背景データ（平均値±2SD, 15.42±1.76 sec, 例数 29）⁴⁾ の範囲内であることから、毒性学的意義はないと考えられた。

[回復期間終了時]

(1) 雄：サテライト群

1000 mg/kg 群では、いずれの項目にも対照群と比較して有意な差はみられなかった。

(2) 雌：サテライト群（非交配群）

1000 mg/kg 群では、対照群と比較してリンパ球に有意な高値がみられたが、投与期間終了時にはみられない変化であり、個々の値は試験施設の背景データ（平均値±2SD, 40.88±27.30 × 10²/μL, 例数 55）⁴⁾ の範囲内であることから、被験物質投与との関連はないと考えられた。

4.1.8 血液化学的検査

血液化学的検査の成績を Table 12-1 ~ 12-7, Appendix 12-1 ~ 12-14 に示す。

[投与期間終了時]

(1) 雄：主試験群

1000 mg/kg 群では、対照群と比較して γ-GTP および総コレステロールに有意な高値、グルコースおよびクロールに有意な低値がみられた。同群では総蛋白の有意な高値がみられたが、

アルブミン量, A/G 比および蛋白分画に変化がみられないことから, 毒性学的意義はないと考えられた. また, 60 mg/kg 以上の用量群で, ALP に有意な低値がみられたが, 臨床的意義の乏しい変化であること, 個々の値は試験施設の背景データ (平均値±2SD, 393.0±217.4 IU/L, 例数 40)⁴⁾ の範囲内であることから, 毒性学的意義はないと考えられた.

(2) 雌 : 主試験群

1000 mg/kg 群では, 対照群と比較して β -グロブリン分画に有意な高値がみられたが, 他の分画に有意差がなく, 総蛋白, アルブミン量および A/G 比にも変化がみられないことから, 毒性学的意義はないと考えられた. 60 および 250 mg/kg 群では, いずれの項目にも有意な差はみられなかった.

(3) 雌 : サテライト群 (非交配群)

1000 mg/kg 群では, 対照群と比較してグルコースに有意な低値, 総コレステロールに有意な高値がみられた. その他に, ALP, γ -GTP およびクレアチニンに有意な低値がみられたが, γ -GTP およびクレアチニンについては個々の値は試験施設の背景データ (γ -GTP 平均値±2SD, 0.61±0.54 IU/L, クレアチニン 平均値±2SD, 0.336±0.080 mg/dL, 例数 30)⁴⁾ の範囲内であること, いずれも臨床的意義の乏しい変化であることから, 毒性学的意義はないと考えられた. また, 総蛋白に有意な高値, アルブミン分画に有意な低値がみられたが, 他の分画やアルブミン量および A/G 比に変化がみられないこと, 血液学的検査および病理組織学的検査において炎症を示唆する変化がみられないこと, 総蛋白の個々の値は試験施設の背景データ (平均値±2SD, 5.96±0.74 g/dL, 例数 30)⁴⁾ の範囲内またはその近傍であることから, 被験物質投与との関連はないと考えられた. 無機リンに有意な高値がみられたが, カルシウムまたは尿素窒素やクレアチニンの高値がみられないこと, 腎臓の病理組織学的検査で被験物質投与に関連する変化がみられないこと, 個々の値は試験施設の背景データ (平均値±2SD, 6.07±2.46 mg/dL, 例数 30)⁴⁾ の範囲内であることから, 毒性学的意義はないと考えられた.

[回復期間終了時]

(1) 雄 : サテライト群

1000 mg/kg 群では, 投与終了時に引き続き γ -GTP に対照群と比較して有意な高値がみられたが, 対照群に対する比率は投与終了時が 204% であったのに対し回復終了時は 159% であり, 回復傾向にあると考えられた.

(2) 雌 : サテライト群 (非交配群)

1000 mg/kg 群では, 投与終了時に引き続き, 対照群と比較してグルコースに有意な低値がみられたが, 対照群に対する比率は投与終了時が 79 % であったのに対して回復終了時は 92 % であった. 個々の値は試験施設の背景データ (平均値±2SD, 144.4±40.0 mg/dL, 例数 55)⁴⁾ の範囲

内であり、回復傾向にあると考えられた。その他に、ALP および γ -GTP に有意な低値がみられたが、臨床的意義の乏しい変化であり、個々の値は試験施設の背景データ (ALP 平均値 \pm 2SD, 170.0 \pm 86.2 IU/L, γ -GTP 平均値 \pm 2SD, 0.89 \pm 0.76 IU/L, 例数 55)⁴⁾ の範囲内であることから、毒性学的意義はないと考えられた。また、A/G 比に有意な低値、 α 1-グロブリン分画に有意な高値がみられたが、投与終了時にはみられない変化であること、他の分画、アルブミン量および総蛋白に有意差がみられないことから、被験物質投与との関連はないと考えられた。

4.1.9 血清 T4 濃度

血清 T4 濃度を Table 13, Appendix 13-1 ~ 13-4 に示す。

[投与期間終了時]

(1) 雄：主試験群

いずれの被験物質投与群においても、対照群と比較して有意な差はみられなかった。

4.1.10 病理検査

4.1.10.1 剖検

剖検所見を Table 14-1 ~ 14-9, Appendix 14-1 ~ 14-15 に示す。

[投与期間終了時]

(1) 雄：主試験群

250 および 1000 mg/kg 群の各 1 例で、両側性の腎臓の大型がみられた。その他に、1000 mg/kg 群の 1 例で一側性の精巣および精巣上体の小型がみられ、病理組織学的検査では精巣にセルトリ精細管（重度）、精巣上体に精子減少（重度）および管腔内細胞残屑（軽度）がみられたが、試験施設の背景データ⁵⁾にみられる所見であり、1 例のみの出現であることから被験物質投与との関連はないと考えられた。対照群および 60 mg/kg 群では、いずれの動物にも異常はみられなかった。

(2) 雌：主試験群

分娩後 14 日に剖検した動物では、1000 mg/kg の用量まで、いずれの動物にも異常はみられなかった。

試験途中で安楽死させた動物では、以下の所見がみられた。

哺育 3 日に衰弱が著しいため安楽死させた 1000 mg/kg 群の 1 例（動物番号 50461）では、胸腺および脾臓の小型がみられた。その他に、被験物質投与に関連のない変化として、哺育 0 日に死産のため安楽死させた 1 例（動物番号 50354）では、胸腺の小型がみられた。妊娠 23 日に難産のため安楽死させた対照群の 1 例（動物番号 50158）では、子宮内に胎盤および胎児が認められた他には、異常はみられなかった。

対照群および 250 mg/kg 群の交尾不成立例および 250 mg/kg 群の不妊例では、異常はみられなかった。

(3) 雌：サテライト群（非交配群）

投与終了時に剖検した動物では、対照群および 1000 mg/kg 群とともに異常所見はみられなかつた。投与 7 日に衰弱が著しいため安楽死させた 1 例（動物番号 50652）では、脾臓および胸腺の小型がみられた。

[回復期間終了時]

(1) 雄：サテライト群

対照群および 1000 mg/kg 群ともに、いずれの動物にも異常所見はみられなかつた。

(2) 雌：サテライト群（非交配群）

対照群および 1000 mg/kg 群ともに、いずれの動物にも異常所見はみられなかつた。

4.1.10.2 器官重量

器官重量を Table 15-1 ~ 15-7, Appendix 15-1 ~ 15-20 に示す。

[投与期間終了時]

(1) 雄：主試験群

対照群と比較して、60 mg/kg 以上の用量群では腎臓の絶対および相対重量、250 mg/kg 以上の用量群では肝臓の相対重量に有意な高値または高値傾向がみられた。1000 mg/kg 群ではさらに、肝臓の絶対重量にも有意な高値がみられた。

(2) 雌：主試験群

1000 mg/kg 群では、肝臓および副腎の絶対および相対重量に对照群と比較して有意な高値がみられた。その他に、同群では腎臓および脳の相対重量に有意な高値、心臓および子宮の絶対重量に有意な低値がみられたが、病理組織学的検査で被験物質投与に関連する変化がみられないことから、剖検時の体重の有意な低値に関連する変化と考えられた。60 mg/kg 群では、副腎の相対重量に有意な高値がみられたが、用量依存性がみられないことから、被験物質投与との関連はないと考えられた。250 mg/kg 群では、いずれの器官の重量にも有意な差はみられなかつた。

(3) 雌：サテライト群（非交配群）

1000 mg/kg 群では、肝臓の絶対および相対重量に对照群と比較して有意な高値がみられた。その他に、腎臓の絶対および相対重量に有意な高値がみられたが、血液化学的検査で腎機能の異常を示唆する変化がなく、腎臓の病理組織学的検査でも被験物質投与に関連する変化がみられないこと、個々の値は試験施設の背景データ（絶対重量 平均値 \pm 2SD, 1.868 \pm 0.348 g, 相対重量 平均値 \pm 2SD, 0.687 \pm 0.112 g/100gBW, 例数 30)⁴⁾ の範囲内またはその近傍であることから、

毒性学的意義はないと考えられた。同群では、剖検時の体重に有意な低値がみられた。

[回復期間終了時]

(1) 雄：サテライト群

1000 mg/kg 群では、投与終了時に引き続き肝臓の相対重量に対照群と比較して有意な高値がみられたが、対照群に対する比率は投与終了時が 141% であったのに対し回復終了時は 115% であり、回復傾向にあると考えられた。その他に、脾臓の絶対および相対重量に有意な高値がみられたが、投与終了時には脾臓重量および脾臓の病理組織学的検査に被験物質投与に関連する変化がなく、血球の減少もみられること、個々の値は試験施設の背景データ（絶対重量 平均値±2SD, 787.3±247.8 mg, 相対重量 平均値±2SD, 143.145±44.196 mg/100gBW, 例数 65⁴⁾ の範囲内またはその近傍であることから、毒性学的意義はないと考えられた。また、精嚢の絶対重量に有意な低値がみられたが、投与終了時にはみられない変化であり、相対重量に変化がみられないことから、体重の有意な低値に関連する変化と考えられた。

(2) 雌：サテライト群（非交配群）

1000 mg/kg 群では、いずれの器官重量にも対照群と比較して有意な差はみられなかった。

4.1.10.3 病理組織学的検査

病理組織学的所見を Table 16-1 ~ 16-37, Appendix 16-1 ~ 16-34 に示す。

[投与期間終了時]

(1) 雄：主試験群

全試験群を検査した腎臓では、60, 250 および 1000 mg/kg 群で近位尿細管上皮の好酸性小体がそれぞれ 12(軽微 8, 軽度 4), 12(軽微 3, 軽度 8, 中等度 1) および 7(軽度 4, 中等度 3) 例、限局性の尿細管好塩基性化が 7(軽微 5, 軽度 2), 9(軽微 6, 軽度 3), 3(軽微 1, 軽度 2) 例にみられ、250 および 1000 mg/kg 群ではさらに尿細管の拡張がそれぞれ 1(軽微) および 1(軽度) 例にみられた。近位尿細管上皮の好酸性小体について α 2u-グロブリン抗体による免疫染色を行った結果、陽性であったことから、前述の所見はいずれも α 2u-グロブリン腎症に関連するものと考えられた。60 mg/kg 以上の用量群の近位尿細管上皮の好酸性小体ならびに 60 および 250 mg/kg 群の限局性の尿細管好塩基性化の発生頻度には、対照群と比較して有意な高値がみられた。その他に、60 および 250 mg/kg 群で硝子円柱（軽微）がそれぞれ 1 および 2 例にみられたが、試験施設の背景データ⁵⁾ にみられる所見であり、出現頻度が低いこと、1000 mg/kg 群にはみられないことから、被験物質投与との関連はないと考えられた。

対照群、1000 mg/kg 群の全例および交尾が成立しなかった 250 mg/kg 群の 1 例について検査を行ったその他の器官・組織では、種々の変化が散見されたが、いずれも対照群または試験施設の背景データ⁵⁾ にみられる所見であること、1000 mg/kg で発現頻度の有意な増加がみられ

ないことから、被験物質投与と関連のない変化と考えられた。交尾不成立例には、交尾不成立の原因と考えられる異常はみられなかった。

(2) 雌：主試験群

分娩後 14 日に剖検を実施した動物では、以下の変化がみられた。

全試験群を検査した肝臓では、1000 mg/kg 群で小葉中心性肝細胞肥大（軽微）が 9 例にみられ、出現頻度に対照群と比較して有意な高値が認められた。

対照群および 1000 mg/kg 群について検査を行ったその他の器官・組織では、1000 mg/kg 群の、投与開始から投与 7 日までの間に著しい体重減少がみられた 1 例（動物番号 50462）で、白脾髄の萎縮（軽度）がみられた。その他には種々の変化が散見されたが、いずれも対照群または試験施設の背景データ⁵⁾にみられる所見であり、発現頻度の有意な増加もみられないことから、被験物質投与と関連のない変化と考えられた。

試験途中で安楽死させた動物では、以下の変化がみられた。

衰弱のため安楽死させた 1000 mg/kg 群の 1 例（動物番号 50461）では、小葉中心性肝細胞肥大（軽度）がみられた。その他に、小葉周辺性肝細胞空胞化（軽微）、腎臓の尿細管上皮の空胞化（軽度）、大腿骨骨髓の造血の減少（軽微）がみられ、さらに胸腺および脾臓の肉眼所見に対応する変化として、胸腺の皮質の萎縮（重度）および白脾髄の萎縮（軽微）がみられた。

死産のため安楽死させた 250 mg/kg 群の 1 例（動物番号 50354）では、幽門胃および十二指腸の潰瘍（軽度）、びまん性肝細胞空胞化（軽度）、腎臓の尿細管上皮の空胞化（軽微）がみられたほか、胸腺の肉眼所見に対応する変化として皮質の萎縮（中等度）がみられた。これらは偶発的な分娩の異常によるストレスと全身状態の悪化を示す変化と考えられた。その他に、下頸リンパ節のリンパ洞への顆粒球の浸潤（軽微）がみられたが、1000 mg/kg 群にはみられない変化であり、被験物質投与との関連はないと考えられた。

難産のため安楽死させた対照群の 1 例（動物番号 50158）では、副腎の皮質細胞の壊死（重度）、肝臓の限局性壊死（軽度）、腎臓の皮質尿細管の壊死（重度）および子宮の潰瘍（中等度）がみられた。これらは全身状態の悪化および子宮内の胎児のうつ滞に起因する変化と考えられた。

交尾が成立しなかった対照群および 250 mg/kg 群の各 1 例および不妊が確認された 250 mg/kg 群の 1 例では、交尾不成立の 250 mg/kg 群の 1 例で小葉中心性肝細胞肥大（軽微）がみられた。その他の変化はいずれも試験施設の背景データ⁵⁾にみられる所見であり、被験物質投与と関連のない変化と考えられた。また、交尾不成立または不妊の原因と考えられる異常はみられなかった。

(3) 雌：サテライト群（非交配群）

1000 mg/kg 群の投与 28 日の翌日に剖検を実施した動物では、小葉中心性肝細胞肥大（軽微）が 4 例にみられ、出現頻度に対照群と比較して有意な高値が認められた。その他の器官・組織では、異常はみられなかった。

試験途中で衰弱のため安楽死させた 1000 mg/kg 群の 1 例（動物番号 50652）では、小葉中心性肝細胞肥大（軽微）がみられた。その他には、腎臓の尿細管拡張（軽度）、尿細管上皮の空胞化（軽微）、大腿骨骨髓の造血の減少（軽微）、下頸リンパ節の傍皮質領域のリンパ球脱落（軽度）がみられ、さらに胸腺および脾臓の肉眼所見に対応する変化として胸腺の皮質の萎縮（中等度）、白脾髄の萎縮（中等度）がみられた。

[回復期間終了時]

(1) 雄：サテライト群

1000 mg/kg 群の腎臓では、尿細管の修復を示す限局性の尿細管好塩基性化が 4 (軽微 2, 軽度 2) 例にみられ、発生頻度は対照群と比較して有意な高値であったが、好酸性小体は認められず、回復傾向にあると考えられた。

(2) 雌：サテライト群（非交配群）

1000 mg/kg 群の肝臓では、いずれの動物にも異常はみられなかった。

4.2 生殖発生毒性

4.2.1 性周期検査

性周期検査の成績を Table 17, Appendix 17-1 ~ 17-8 に示す。

交配前 14 日間の性周期観察において、性周期の異常の発現率、発情期間隔および発情回数には被験物質投与群と対照群の間に有意な差はみられなかった。

4.2.2 生殖能検査

生殖能検査の成績を Table 18-1 および 18-2, Appendix 18-1 ~ 18-8 に示す。

交配では、対照群および 250 mg/kg 群の各 1 組（動物番号 10104 および 50154, 10305 および 50355）で交尾が成立せず、交尾が成立した雌動物では 250 mg/kg 群の 1 例（動物番号 50360）が不妊であった。しかし、1000 mg/kg では全例で交尾が成立し、妊娠が確認されていること、交尾率、受胎率および交尾所要日数には、いずれの群にも被験物質投与群と対照群の間に有意な差はみられないことから、これらの変化と被験物質投与との関連はないと考えられた。

4.2.3 分娩観察

分娩観察の成績を Table 19-1 および 19-2, Appendix 19-1 ~ 19-8 に示す。

250 mg/kg 群の 1 例（動物番号 50354）で、生後 0 日の出生児の検査時に生存児が認められな

かった（死産）。1000 mg/kg 群では分娩の異常や死産児の増加はみられないことから、この変化と被験物質投与と関連性はないと考えられた。その他に、対照群の 1 例（動物番号 50158）に難産がみられた。

妊娠期間、出産率、着床数、分娩率、出産児数、出産時の生存児数および死亡児数、ならびに性比には、いずれの被験物質投与群においても対照群と比較して有意な差はみられなかった。また、いずれの出産生児にも外表異常は認められなかった。

4.2.4 新生児の一般状態および生存率

新生児の一般状態および生存率の成績を Table 20-1, 20-2 および 21, Appendix 20-1 ~ 20-16 および 21-1 ~ 21-4 に示す。

生後 0 日から 13 日の一般状態では、1000 mg/kg 群の 1 腹（母動物番号 50461）で、生後 1 および 2 日に外表から胃内の乳汁が確認できない新生児がみられ（生後 1 日；4/14 例、生後 2 日；11/11 例）、生後 3 日までに全ての新生児が死亡した。この腹の母動物では哺育 0 日から児集めがみられず、哺育 3 日に衰弱が著しいことから安楽死させた。対照群、60 および 250 mg/kg 群では、いずれの新生児にも一般状態に異常は認められなかった。

新生児の生存率には、被験物質投与群と対照群の間に有意な差はみられなかった。

4.2.5 新生児の体重

新生児の体重を Figure 3, Table 22, Appendix 22-1 ~ 22-4 に示す。

1000 mg/kg 群では、生後 0 日には変化はみられなかつたが、生後 4 日以降は低値で推移し、生後 7 および 13 日には雌雄に対照群と比較して有意な差がみられた。60 および 250 mg/kg 群では、雌雄ともに有意な差はみられなかつた。

4.2.6 新生児の肛門生殖突起間距離

新生児の肛門生殖突起間距離を Table 23, Appendix 23-1 ~ 23-4 に示す。

生後 4 日の肛門生殖突起間距離および体重の立方根で除した値には、雌雄とともに被験物質投与群と対照群の間に有意な差はみられなかつた。

4.2.7 新生児の乳頭数

新生児の乳頭数を Table 24, Appendix 24-1 ~ 24-4 に示す。

乳頭は、生後 13 日の雄新生児のいずれにも観察されなかつた。

4.2.8 新生児の血清 T4 濃度

生後 13 日の新生児の血清 T4 濃度を Table 25, Appendix 25-1 ~ 25-4 に示す。

生後 13 日の血清 T4 濃度には、被験物質投与群と対照群の間に有意な差はみられなかつた。

4.2.9 新生児の剖検

新生児の剖検所見を Table 26, Appendix 26-1 ~ 26-4 に示す。

生後 13 日の生存児および生後 0-4 日の間に発見された死亡児の剖検では、いずれの動物にも異常はみられなかった。

5 考察

5.1 反復投与毒性

一般状態では、1000 mg/kg 群の非交配群および主試験群の雌各 1 例で、それぞれ投与 7 日および哺育 3 日に呼吸緩徐および自発運動の低下がみられ、これら 2 例の動物は衰弱が著しいことから安楽死させた。その他に、同群の雌雄で外尿道口周囲被毛汚染、雌で口周囲被毛汚染および流涎がみられた。これらは被験物質投与の影響と考えられた。

体重および摂餌量では、1000 mg/kg 群で雄の投与期間の体重増加量に低値がみられた。同群の雌では、投与開始後 7 日までの間に一部の動物で著しい体重および摂餌量の減少がみられ、主試験群では妊娠および哺育期間の体重、非交配群では投与期間を通した体重および投与 7 日までの摂餌量の群平均に低値がみられた。これらは被験物質投与の影響と考えられた。一方、同群の雄の投与 28 日および雌の妊娠 20 日の摂餌量には高値がみられ、被験物質投与に関連した摂餌効率の低下が示唆された。

尿検査では、1000 mg/kg 群の雄で尿量の高値、同群の非交配群の雌で尿量の高値および尿 pH の低値がみられ、被験物質投与の影響と考えられた。雌の非交配群の変化については、腎臓の病理組織学的検査で被験物質投与に関連する変化がみられないこと、血液化学的検査でカリウム、クレアチニン、尿素窒素等にアシドーシスや腎機能の異常を示唆する変化がみられないことから、影響は僅かと考えられた。

血液化学的検査では、1000 mg/kg 群の雄および非交配群の雌で、総コレステロールの高値およびグルコースの低値、雄で γ -GTP の高値がみられ、被験物質投与の影響と考えられた。

病理検査では、雄で 1000 mg/kg 群の肝臓の絶対および相対重量に高値がみられ、被験物質投与の影響と考えられた。250 mg/kg 群でも相対重量にのみ有意な高値がみられたが、病理組織学的検査および血液化学的検査で関連する変化がみられないことから、毒性学的意義はないと考えられた。また、雄で 60 mg/kg 以上の用量群に腎臓重量の高値がみられ、250 および 1000 mg/kg 群の各 1 例に腎臓の大型化がみられた。これらの群の腎臓の病理組織学的検査では、 α 2u-グロブリン腎症に関連する変化 [近位尿細管上皮の好酸性小体 (α 2u-グロブリン抗体による免疫染色陽性)、限局性的尿細管好塩基性化および尿細管拡張] がみられており、腎臓重量および腎臓の肉眼所見はこれに関連する変化と考えられた。1000 mg/kg 群の雄における尿量の高値、

クロールの低値についても、腎臓の変化に関連する可能性が考えられた。 α 2u-グロブリン腎症は雄ラットに特有な変化であり、ヒトには外挿できないとされていることから⁶⁾、これらの変化には毒性学的意義はないと考えられた。

雌の病理検査では、1000 mg/kg 群の主試験群および非交配群で肝臓重量の高値がみられ、病理組織学的検査では小葉中心性肝細胞肥大がみられた。小葉中心性肝細胞肥大は 250 mg/kg 群の交尾不成立例にもみられた。これらは被験物質投与の影響と考えられた。250 mg/kg 群の分娩後 14 日剖検例では同様の変化はみられず、生理条件の違いによるものと考えられた。その他に、1000 mg/kg 群の主試験群の副腎重量に高値がみられたが、副腎の病理組織学的検査で被験物質投与に関連する変化がみられないこと、同群では体重の低値等の全身状態への影響がみられていることから、ストレスに対する生理的な反応の可能性が考えられた。

1000 mg/kg 群で衰弱のため安楽死させた動物では、胸腺および脾臓の小型がみられ、病理組織学的検査では対応する所見として胸腺の皮質の萎縮および白脾髄の萎縮がみられた。加えて、これらの安楽死例では小葉周辺性肝細胞空胞化、腎臓の尿細管拡張、尿細管上皮の空胞化、大腿骨骨髄の造血の減少または下顎リンパ節の傍皮質領域のリンパ球脱落がみられた。白脾髄の萎縮は、分娩後 14 日に剖検した動物のうち、投与期間中に著しい体重減少がみられた 1 例にも認められた。上記の変化はいずれも衰弱例または著しい体重減少がみられた動物以外にはみられない変化であり、全身状態の悪化による二次的な変化と考えられた。

詳細な状態観察、機能検査、血液学的検査および雄の血清中 T4 濃度では、雌雄ともに 1000 mg/kg の用量まで被験物質投与の影響はみられなかった。

投与期間中にみられた変化には、回復終了時までにいずれも回復または回復傾向がみられた。

以上のことから、本試験条件下におけるイソノナンの反復投与毒性に関する無毒性量 (NOAEL) は、1000 mg/kg で雌雄に外尿道口周囲被毛汚染、雌に呼吸緩徐、自発運動の低下、口周囲被毛汚染および流涎、雌雄に体重/体重増加量/摂餌量の低値および摂餌量の高値、総コレステロールの高値、グルコースの低値および肝臓重量の高値、雄に γ -GTP の高値、雌に尿量の高値、尿 pH の低値および小葉中心性肝細胞肥大がみられたことから、雌雄ともに 250 mg/kg/day と判断した。ただし、250 mg/kg の交尾不成立例で小葉中心性肝細胞肥大がみられたことから、哺育期間中ではない雌では 60 mg/kg/day と考えられた。

5.2 生殖発生毒性

生殖能検査では、1000 mg/kg 群まで性周期の異常の発現率、発情期間隔および発情回数、交尾率、受胎率、交尾所要日数、着床数、分娩率、妊娠期間、出産率、出産児数、ならびに出産時の生存児数および死亡児数には、被験物質投与に関連する変化はみられなかった。

新生児については、1000 mg/kg 群で雌雄に体重の低値がみられ、被験物質投与の影響と考えられた。同群では 1 腹で母動物に児集めがみられず、生後 3 日までに出産児が全て死亡した。この腹の母動物は、全身状態が悪化したため、哺育 3 日に安楽死させた。他の腹では哺育行動に異常がみられないこと、児動物の生存率には有意な差がみられないことから、この変化は被験物質投与による母動物の哺育行動や児動物への直接の影響ではなく、母動物の全身状態の悪化による二次的な変化と考えられた。新生児の一般状態では、哺育行動に異常のみられた 1 腹で新生児の胃に乳汁が認められなかった他には、いずれの新生児にも異常はみられなかつた。性比、外表異常児出現率および剖検では、1000 mg/kg 群まで、被験物質投与に関連する変化はみられなかつた。また、新生児の肛門生殖突起間距離、乳頭数、血清 T4 濃度には、内分泌の異常を示唆する変化はみられなかつた。

以上のように、本試験条件下におけるイソノナンの親動物の生殖に対する無毒性量 (NOAEL) は、1000 mg/kg まで被験物質投与の影響は認められなかつたことから 1000 mg/kg/day、次世代の発生・発育に対する無毒性量 (NOAEL) は、1000 mg/kg で雌雄の新生児の体重の低値がみられたことから 250 mg/kg/day と判断した。

6 試験成績の信頼性に影響を及ぼしたと思われる環境要因

動物番号 50458 について、妊娠 19 日の投与前の一般状態観察を実施する前に投与を行つたことから、投与前の一般状態が欠測となつた。前日の投与後および当日の投与後に異常がみられなかつたことから、このことによる試験の信頼性に対する影響はないと考えられた。

試験計画書には分娩中の動物は分娩終了後に投与を行うことが規定されているが、動物番号 50158 について分娩終了前に投与を行つた。投与後の一般状態観察で異常はみられなかつたことから、このことによる試験の信頼性に及ぼす影響はないと考えられた。この動物はその後、分娩遷延による難産のため安楽死させた。その際、娩出した生存児および子宮内の生存胎児の取り扱いについての規定がなかつたが、生後 4 および 13 日の採血を実施しない新生児と同様の方法で安楽死処分した。この動物は対照群であり、難産および安楽死は偶発的な事態であることから、このことによる試験の信頼性に及ぼす影響はないと考えられた。

コンピュータシステムのデータの確認の際、動物番号 50153 の生後 4 日の哺育児 1 例の体重および動物番号 50357 の哺育 4 日の体重が手入力と表示されていた。確定時の誤操作と考えられたが、データは取得できていることから、このことによる試験の信頼性に対する影響はないと考えられた。

試験計画書では、生後 13 日の新生児について各腹 2 例を採血に用い、原則的に各腹雌雄 1 例の甲状腺を保存すると規定されているが、動物番号 50362 の生後 13 日の生存児（雄 7 囂、

雌1匹)では、雌雄各1例を採血に使用し、雌の新生児の甲状腺を保存しなかった。雄の新生児の甲状腺は保存されていること、同群の他の腹から雌の新生児8例の標本が得られていることから、このことによる試験の信頼性に対する影響はないと考えられた。

動物番号50461を哺育3日に瀕死のため安楽死させた際、コンピュータシステムに児動物の一般状態を入力する前に搬出登録を行ったことにより、生後3日の一般状態を入力できなくなった。哺育児の一般状態はオフラインデータであり、帳票の編集により生後3日のデータを反映させたことから、このことによる試験の信頼性に対する影響はないと考えられた。

回復2週の尿検査で21時間尿を回収した際、動物番号50560を収容している代謝ケージ下の床に水がこぼれていた。この動物の尿量は著しく高い値であり、動物が給水器に振動を与える等の原因でこぼれた水が採尿容器に混入した可能性が考えられた。この動物の21時間尿は適切なサンプルではないと判断し、尿量および比重のデータは集計から除外した。対照群の雌ではこれらのデータ数が4となったが、統計検定が可能であることから、このことによる試験の信頼性に対する影響はないと考えられた。

試験計画書には交尾不成立例の病理組織学的検査は規定されていなかったが、交尾不成立例の動物番号50355について、剖検時に保存した器官・組織の標本作製を実施した。試験計画書の記載漏れであり、交尾不成立例の評価を追加する旨の試験計画書変更書を発行して必要な検査を実施したことから、このことによる試験の信頼性に対する影響はないと考えられた。

その他に試験成績の信頼性に影響を及ぼしたと思われる環境要因はなかった。

7 資料の保存

7.1 資料の種類

以下を株式会社化合物安全性研究所の資料保存室に保存する。

1. 試験計画書および試験計画書変更書
2. 生データその他の記録文書
3. 最終報告書
4. 標本
5. 被験物質サンプル

7.2 保存期間

試験終了後10年間保存し、その後の保存については試験委託者との協議により決定する。

8 参考資料

- 1) PubChem, 2-Methyloctane,
website: <https://pubchem.ncbi.nlm.nih.gov/compound/2-methyloctane>
- 2) 安全データシート [REDACTED]
- 3) 最終報告書：イソノナンのラットにおける反復投与毒性・生殖発生毒性併合試験のための予備試験 (SR19179), 株式会社化合物安全性研究所 2019 年
- 4) 血液学的検査/血液化学的検査/器官重量 背景データ Crl:CD(SD) ラット(雌雄 : 15 ~ 16/17 ~ 18 週齢) (2015 ~ 2020 年) 株式会社化合物安全性研究所 社内資料
- 5) 病理組織学的検査 背景データ Crl:CD(SD) ラット(2012 ~ 2020 年) 株式会社化合物安全性研究所 社内資料
- 6) Swenberg, J.A., Short, B., Borghoff, S., Strasser, J., Charbonneau, M. (1989) The Comparative Pathobiology of α 2u-Globulin Nephropathy. *Toxicol. Appl. Pharmacol.* 97, 35-46.

Figure 1 - 1

Body weight, Male Period : Administration Day 1-28, Recovery Day 1-14

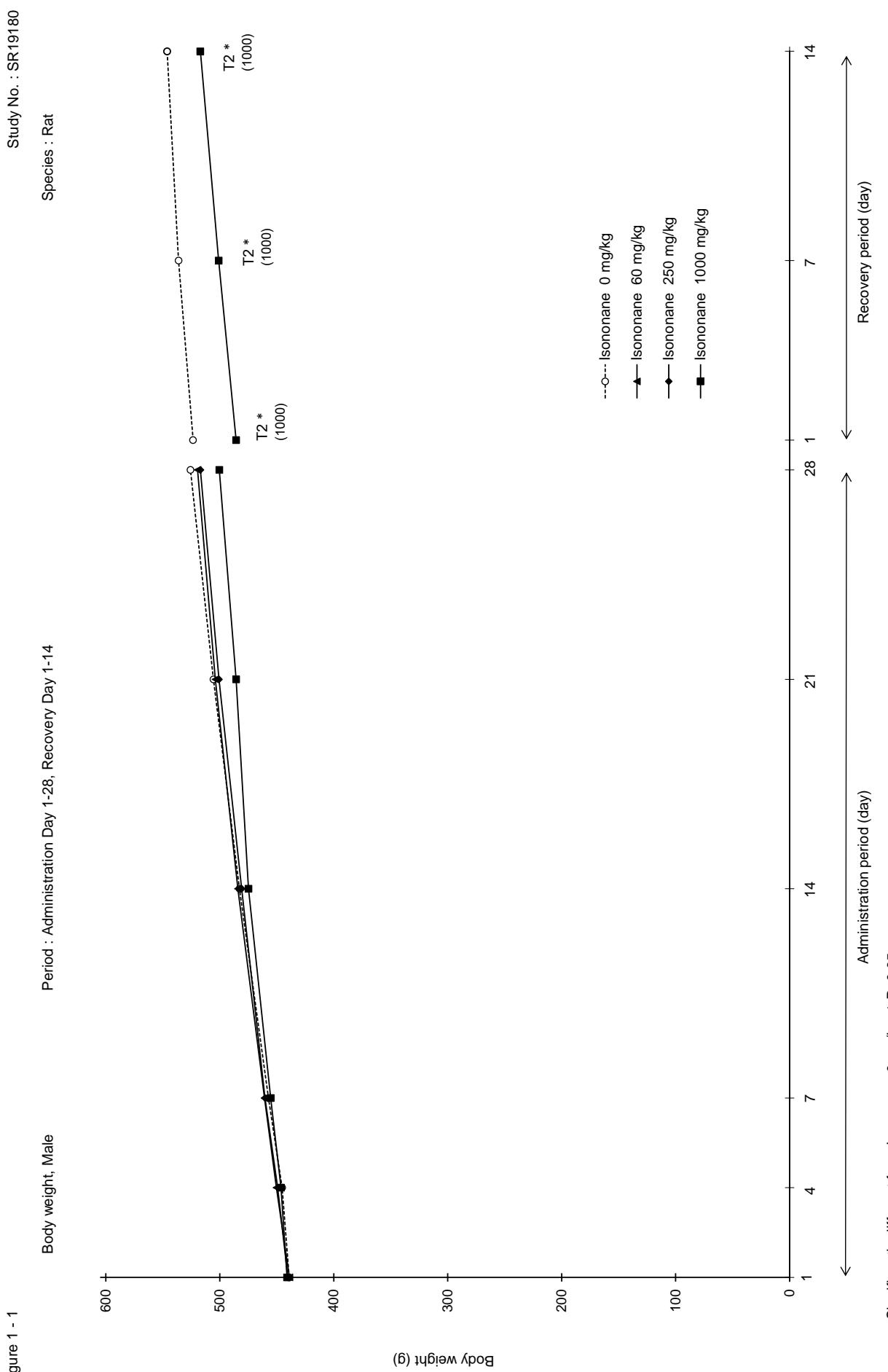
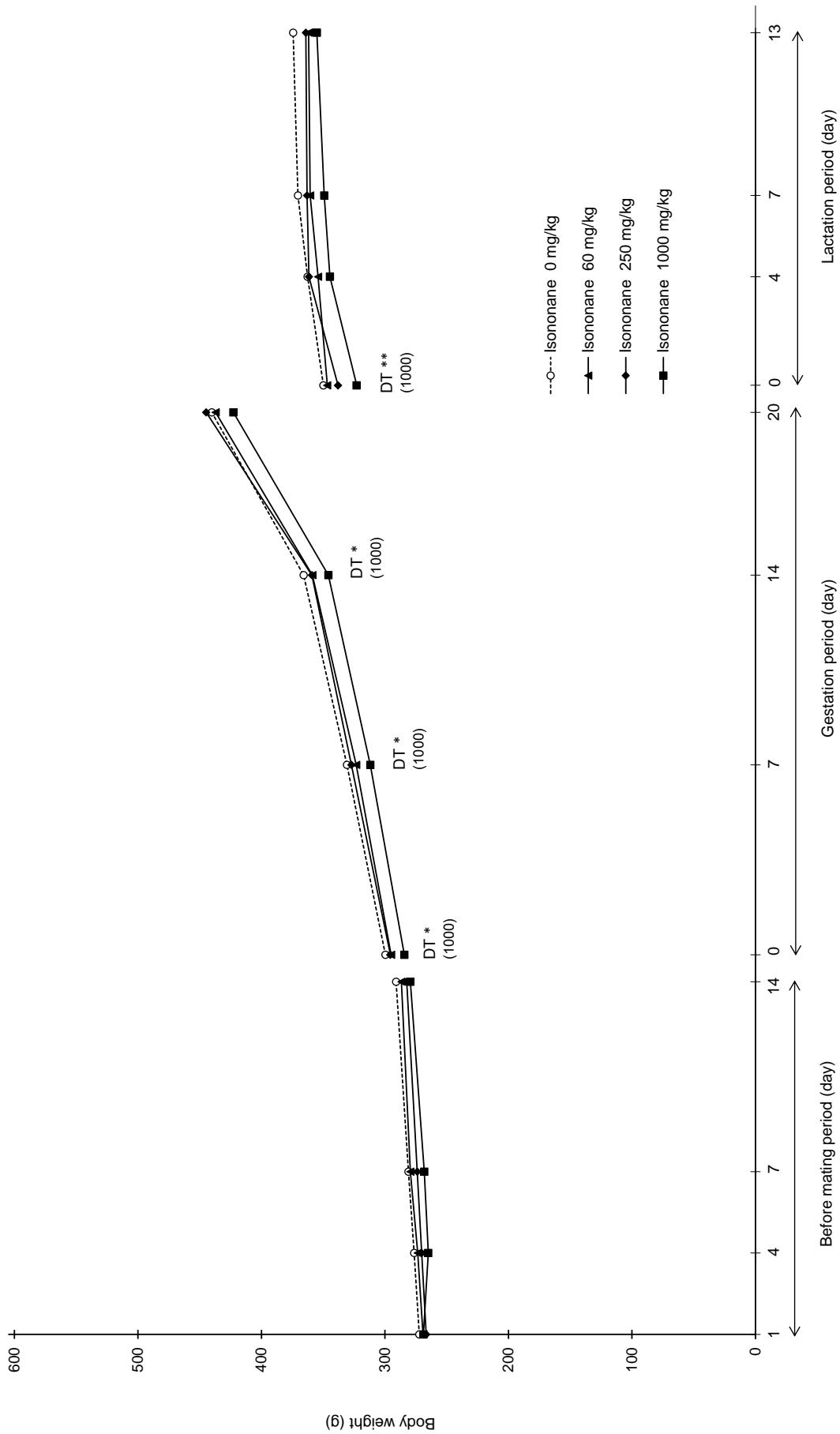


Figure 1 - 2

Body weight, Female
Period : F0 Day 1-14, F0 gestation Day 0-20, F0 lactation Day 0-13

Study No. : SR19180
Species : Rat



Significantly different from Isononane 0 mg/kg: * P<0.05, ** P<0.01
DT : Dunnett test (two-side)

Figure 1 - 3

Body weight, Female (satellite) Period : Administration Day 1-28, Recovery Day 1-14

Study No. : SR19180
Species : Rat

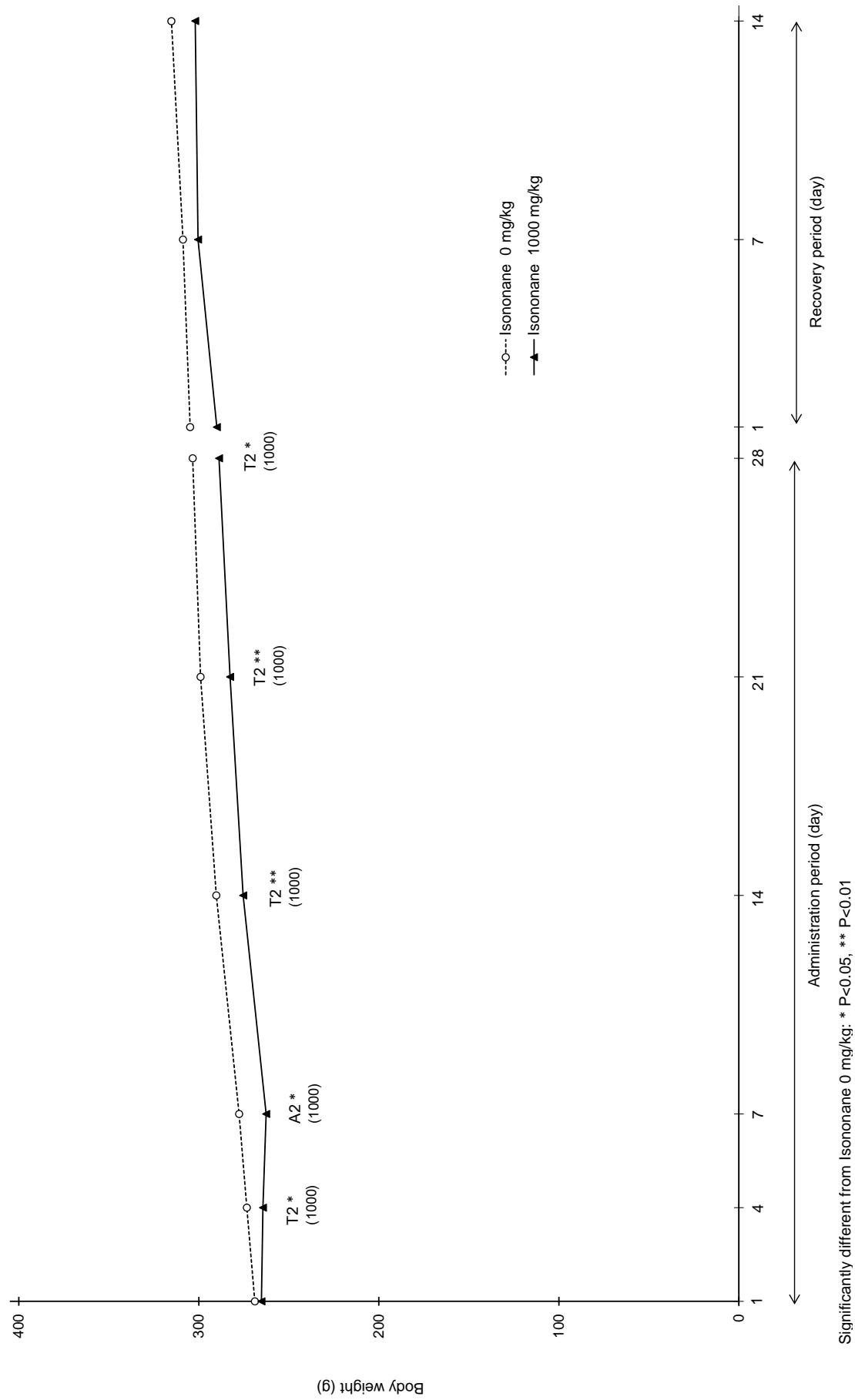
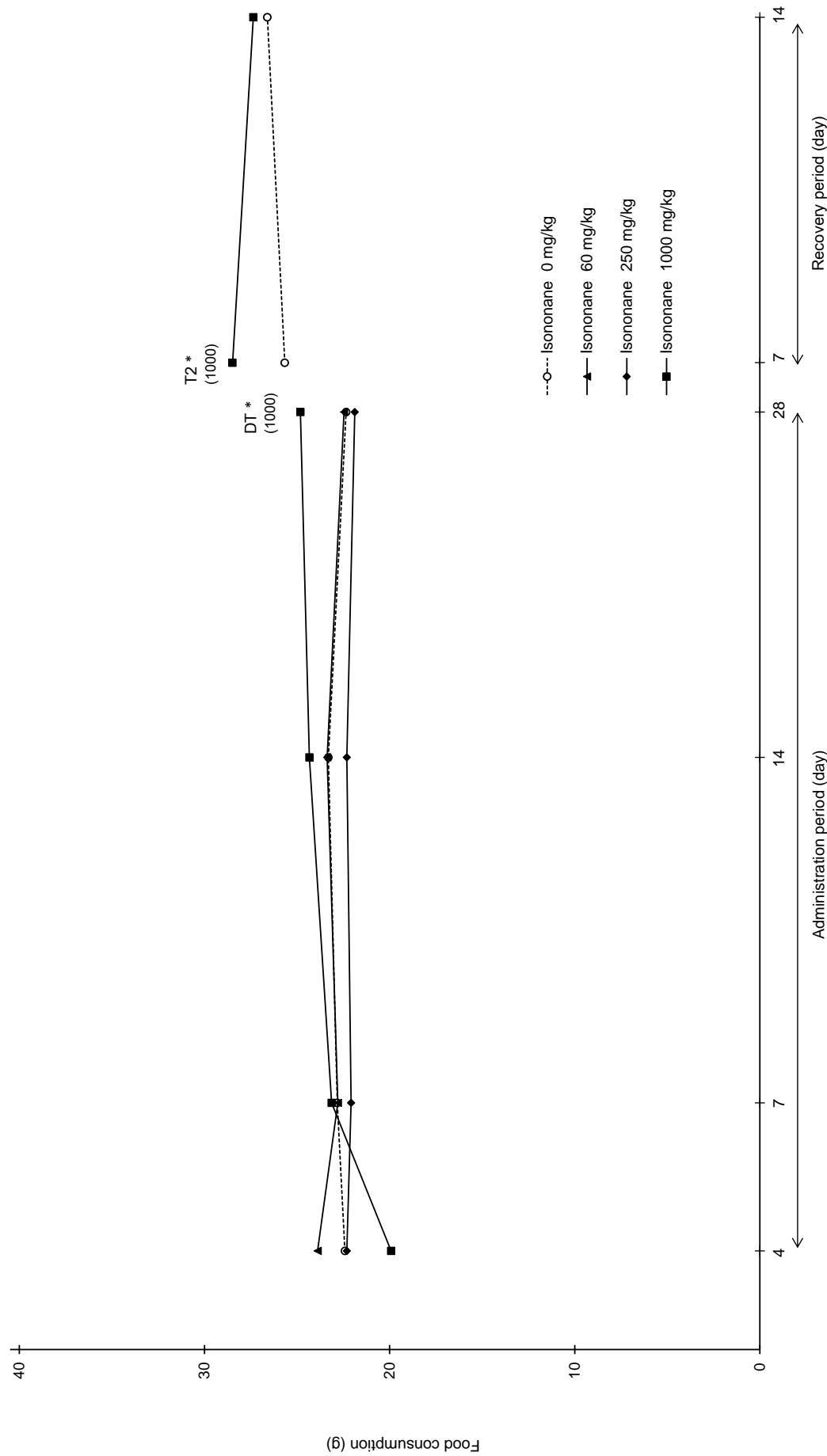


Figure 2 - 1

Food consumption, Male Period : Administration Day 1-28, Recovery Day 1-14

Study No. : SR19180
Species : Rat

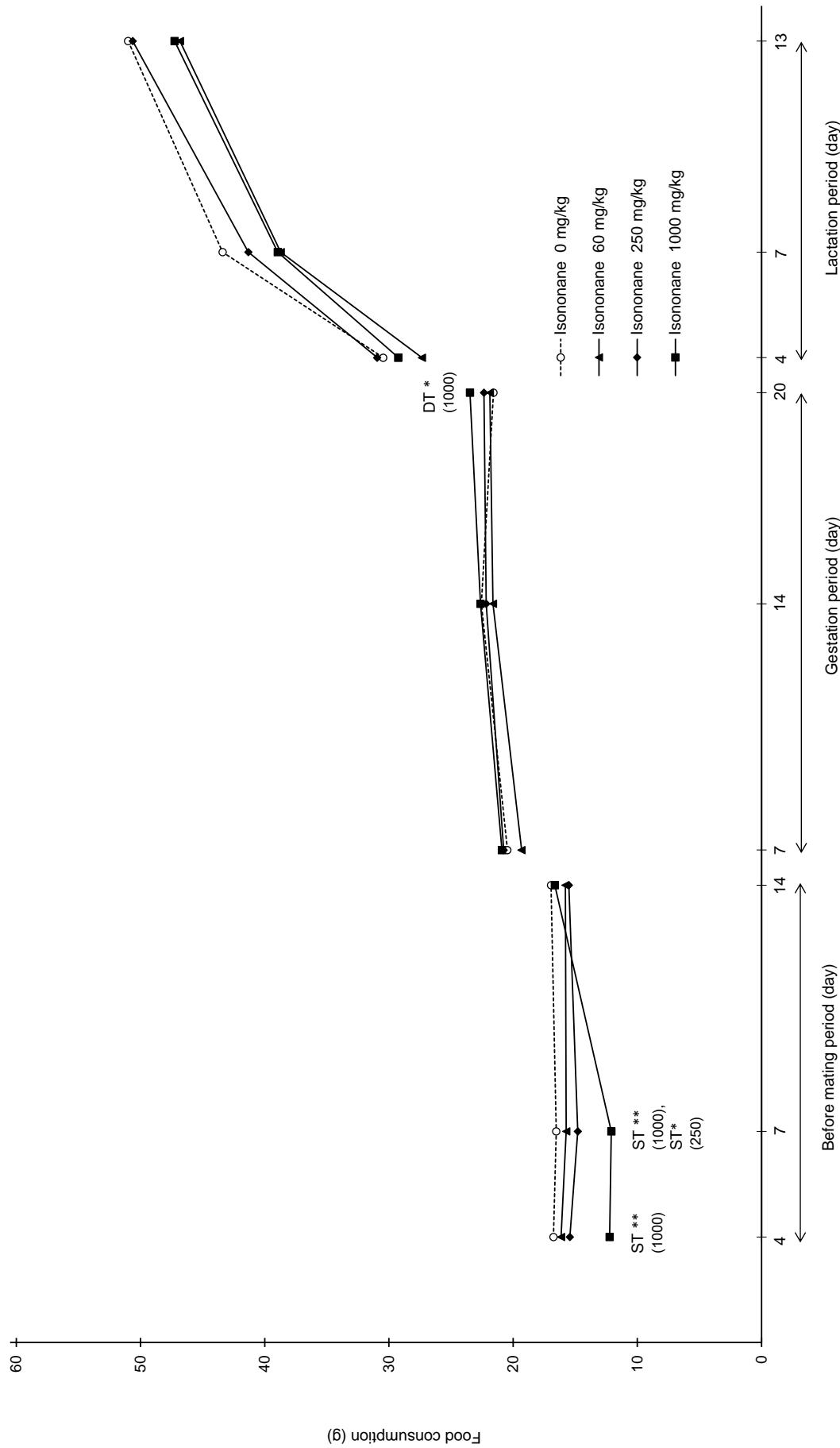


Significantly different from Isononane 0 mg/kg: * P<0.05
DT : Dunnett test (two-side), T2 : Student t-test (two-side)

Figure 2 - 2

Food consumption, Female
Period : F0 Day 1-14, F0 gestation Day 0-20, F0 lactation Day 0-13

Study No. : SR19180
Species : Rat



Significantly different from Isononane 0 mg/kg: * P<0.05, ** P<0.01
DT : Dunnett test (two-side), ST : Steel test (two-side)

Figure 2 - 3

Food consumption, Female (satellite) Period : Administration Day 1-28, Recovery Day 1-14

Study No. : SR19180
Species : Rat

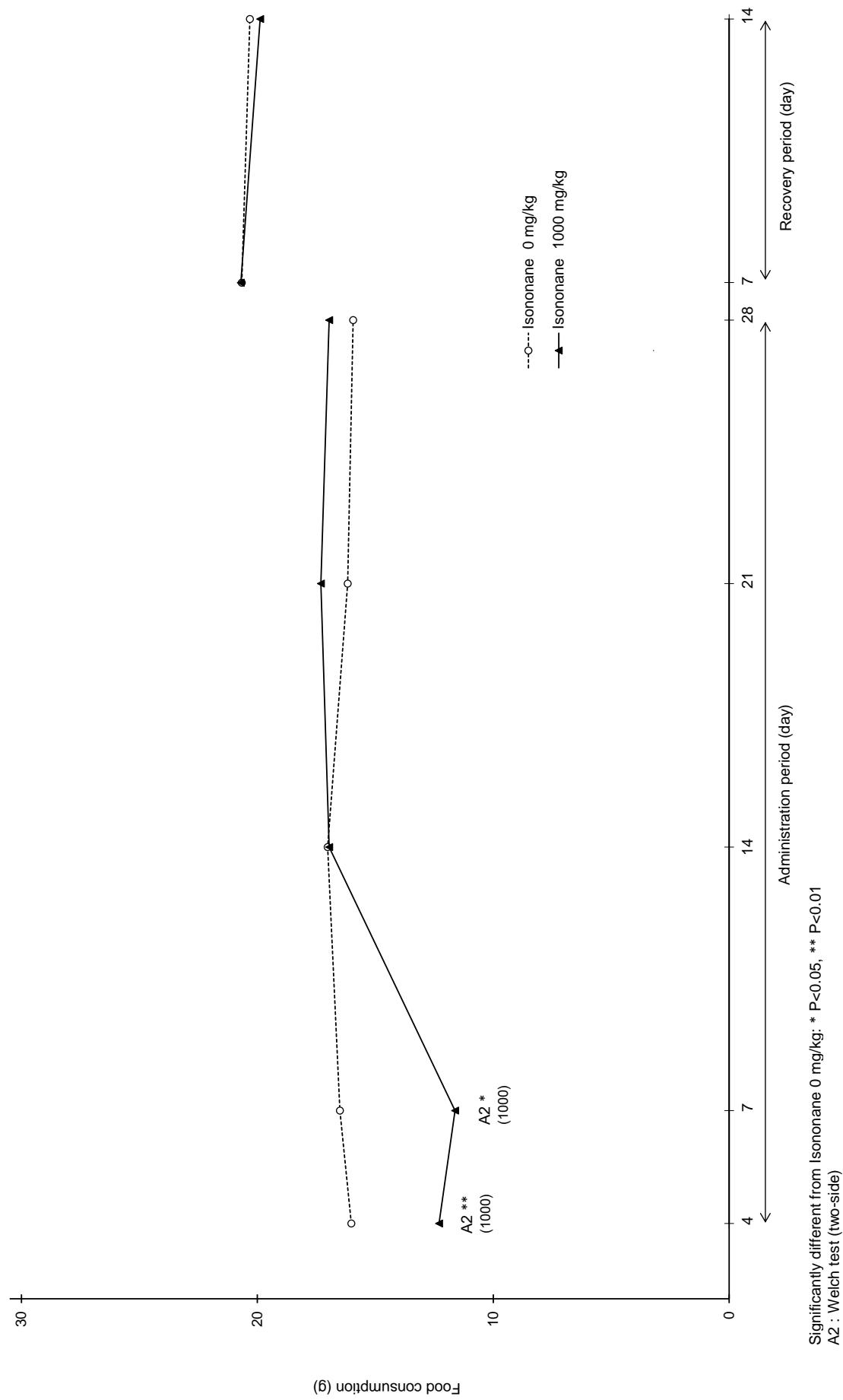
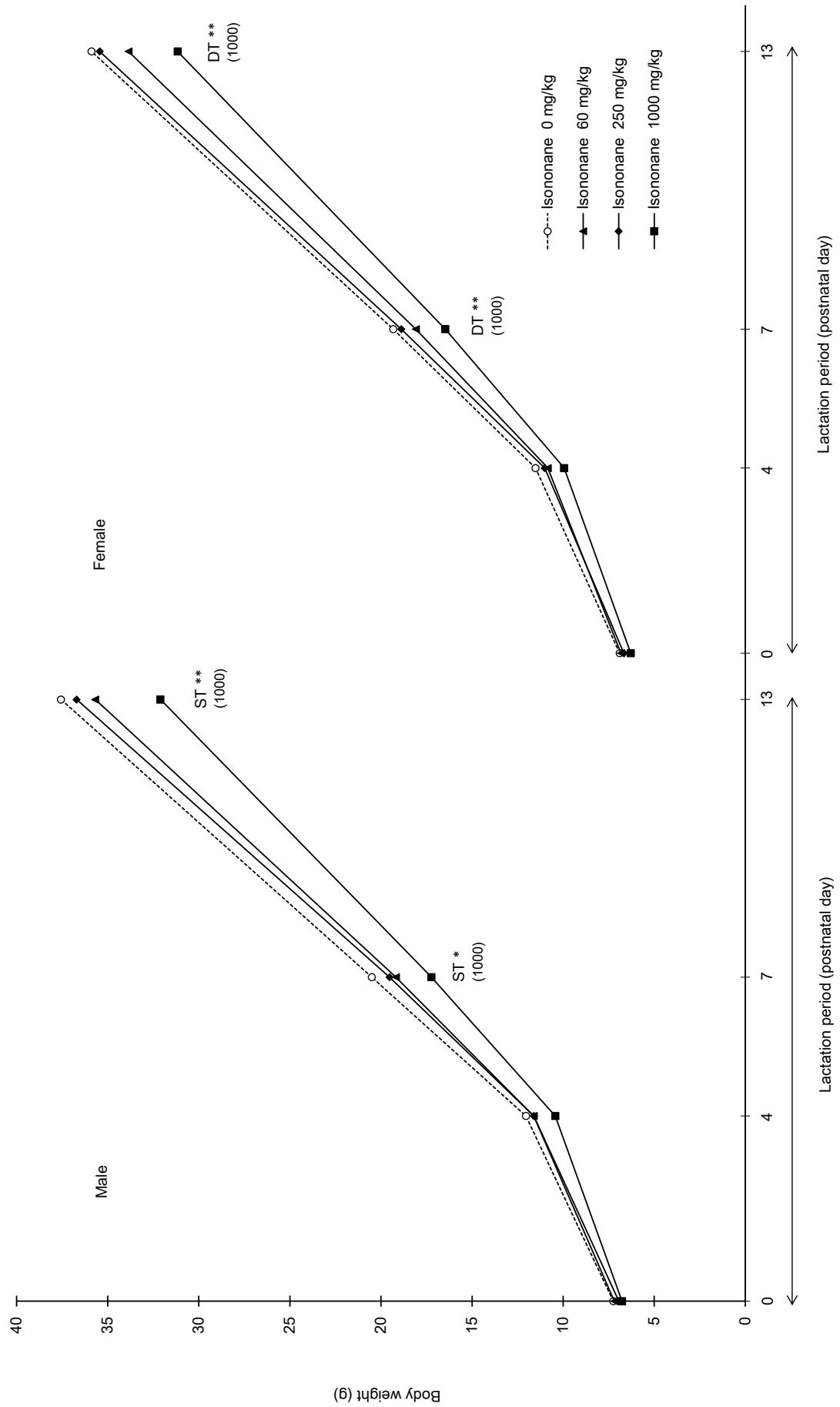


Figure 3

Study No. : SR19180
Species : Rat
Period : Postnatal Day 0-13



Clinical sign
Sex : Male

Test article Dose		Clinical signs										Species : Rat
		Day Time	1	2	3	4	5	6	7	8		
Isononane	n											
0 mg/kg	No abnormality	12	12	12	12	12	12	12	12	12	12	12
Isononane	n											
60 ng/kg	No abnormality	12	12	12	12	12	12	12	12	12	12	12
Isononane	n											
250 mg/kg	No abnormality	12	12	12	12	12	12	12	12	12	12	12
Isononane	n											
1000 mg/kg	No abnormality	12	12	12	12	12	12	12	12	12	12	12
	Soil of perigenital fur	0	0	0	0	0	0	0	0	0	0	0

Clinical sign
Sex : Male

Test article Dose		Clinical signs										Species : Rat
		Day Time	1	2	3	4	5	6	7	8		
Isononane	n											
0 mg/kg	No abnormality	12	12	12	12	12	12	12	12	12	12	12
Isononane	n											
60 ng/kg	No abnormality	12	12	12	12	12	12	12	12	12	12	12
Isononane	n											
250 mg/kg	No abnormality	12	12	12	12	12	12	12	12	12	12	12
Isononane	n											
1000 mg/kg	No abnormality	12	12	12	12	12	12	12	12	12	12	12
	Soil of perigenital fur	0	0	0	0	0	0	0	0	0	0	0

Clinical sign
Sex : Male

Test article Dose		Clinical signs										Species : Rat
		Day Time	1	2	3	4	5	6	7	8		
Isononane	n											
0 mg/kg	No abnormality	12	12	12	12	12	12	12	12	12	12	12
Isononane	n											
60 ng/kg	No abnormality	12	12	12	12	12	12	12	12	12	12	12
Isononane	n											
250 mg/kg	No abnormality	12	12	12	12	12	12	12	12	12	12	12
Isononane	n											
1000 mg/kg	No abnormality	12	12	12	12	12	12	12	12	12	12	12
	Soil of perigenital fur	0	0	0	0	0	0	0	0	0	0	0

Clinical sign
Sex : Male

Test article Dose		Clinical signs										Species : Rat
		Day Time	1	2	3	4	5	6	7	8		
Isononane	n											
0 mg/kg	No abnormality	12	12	12	12	12	12	12	12	12	12	12
Isononane	n											
60 ng/kg	No abnormality	12	12	12	12	12	12	12	12	12	12	12
Isononane	n											
250 mg/kg	No abnormality	12	12	12	12	12	12	12	12	12	12	12
Isononane	n											
1000 mg/kg	No abnormality	12	12	12	12	12	12	12	12	12	12	12
	Soil of perigenital fur	0	0	0	0	0	0	0	0	0	0	0

Administration)1 : Before dosing, 2 : After dosing, 3 : Necropsy day

Table 1 - 2 Clinical sign Sex : Female

Period : F0 Day 1-52										Species : Rat								
Test article	Dose	Clinical signs																
		Day	1	2	3	4	5	6	7	Day	1	2	1	2	1	2	1	
Isononane	0 mg/kg	n	No abnormality	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
Isononane	60 ng/kg	n	No abnormality	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
Isononane	250 mg/kg	n	No abnormality	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
Isononane	1000 mg/kg	n	No abnormality	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
Soil of perioral fur																		
Soil of perigenital fur																		
Test article	Dose	Clinical signs								Day	9	10	11	12	13	14	15	16
		Time	1	2	1	2	1	2	1	Day	1	2	1	2	1	2	1	2
Isononane	0 mg/kg	n	No abnormality	12	12	12	12	12	12	12	12	12	12	12	12	9	9	7
Isononane	60 ng/kg	n	No abnormality	12	12	12	12	12	12	12	12	12	12	12	12	9	9	7
Isononane	250 mg/kg	n	No abnormality	12	12	12	12	12	12	12	12	12	12	12	12	11	11	9
Isononane	1000 mg/kg	n	No abnormality	12	12	12	12	12	12	12	12	12	12	12	12	11	11	9
Soil of perioral fur																		
Soil of perigenital fur																		
Test article	Dose	Clinical signs								Day	17	18	19	20	21	22	23	24
		Time	1	2	1	2	1	2	1	Day	1	2	1	2	1	2	1	2
Isononane	0 mg/kg	n	No abnormality	5	5	2	2	1	1	1	1	1	1	1	1	1	1	1
Isononane	60 ng/kg	n	No abnormality	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0
Isononane	250 mg/kg	n	No abnormality	6	6	2	2	2	2	2	2	2	2	2	2	2	2	2
Isononane	1000 mg/kg	n	No abnormality	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1
Soil of perioral fur																		
Soil of perigenital fur																		

F0)1 : Before dosing, 2 : After dosing

Table 1 - 3 Clinical sign Sex : Female

Test article	Dose		Period : F0 Day 1-52												Species : Rat 32								
			Clinical signs			Day 25			Day 26			Day 27			Day 28			Day 29					
Time		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	
Isononane	0 mg/kg	¶	No abnormality			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Isononane	60 ng/kg	¶	No abnormality			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Isononane	250 mg/kg	¶	No abnormality			2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	
Isononane	1000 mg/kg	¶	No abnormality			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
F0)1 : Before dosing, 2 : After dosing																							
Test article	Dose		Period : F0 Day 1-52												Species : Rat 40								
			Clinical signs			Day 33			Day 34			Day 35			Day 36			Day 37					
Time		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	
Isononane	0 mg/kg	¶	No abnormality			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Isononane	60 ng/kg	¶	No abnormality			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Isononane	250 mg/kg	¶	No abnormality			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Isononane	1000 mg/kg	¶	No abnormality			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
F0)2 : After dosing, 2 : Before dosing																							
Test article	Dose		Period : F0 Day 1-52												Species : Rat 48								
			Clinical signs			Day 41			Day 42			Day 43			Day 44			Day 45					
Time		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	
Isononane	0 mg/kg	¶	No abnormality			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Isononane	60 ng/kg	¶	No abnormality			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Isononane	250 mg/kg	¶	No abnormality			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Isononane	1000 mg/kg	¶	No abnormality			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Clinical sign
Sex : Female

Test article Dose		Clinical signs	Period : F0 Day 1-52						Species : Rat		
			Day	49	50	51	52	Time	1	2	3
Isononane	n			1	1	1	1		1	1	1
0 mg/kg	No abnormality			1	1	1	1		1	1	1
Isononane	n			0	0	0	0		0	0	0
60 ng/kg	No abnormality			0	0	0	0		0	0	0
Isononane	n			1	1	1	1		1	1	1
250 mg/kg	No abnormality			1	1	1	1		1	1	1
Isononane	n			0	0	0	0		0	0	0
1000 mg/kg	No abnormality			0	0	0	0		0	0	0
	Soil of perioral fur			0	0	0	0		0	0	0
	Soil of perigenital fur			0	0	0	0		0	0	0

F01 : Before dosing, 2 : After dosing, 3 : Necropsy day

Table 1 - 5

Study No. : SR19180

Clinical sign
Sex : Female

Test article	Dose	Period : F0 gestation Day 0-23														Species : Rat	
		Day 0		Day 1		Day 2		Day 3		Day 4		Day 5		Day 6			
Time		Time		Time		Time		Time		Time		Time		Time			
Isononane	0 mg/kg	n	No abnormality	11	11	11	11	11	11	11	11	11	11	11	11	11	
			Decrease in locomotor activity	0	0	0	0	0	0	0	0	0	0	0	0	0	
			Tachypnea	0	0	0	0	0	0	0	0	0	0	0	0	0	
Isononane	60 mg/kg	n	No abnormality	12	12	12	12	12	12	12	12	12	12	12	12	12	
				12	12	12	12	12	12	12	12	12	12	12	12	12	
Isononane	250 mg/kg	n	No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Isononane	1000 mg/kg	n	No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10
<hr/>																	
Isononane	0 mg/kg	n	No abnormality	11	11	11	11	11	11	11	11	11	11	11	11	11	11
			Decrease in locomotor activity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Tachypnea	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isononane	60 mg/kg	n	No abnormality	12	12	12	12	12	12	12	12	12	12	12	12	12	12
				12	12	12	12	12	12	12	12	12	12	12	12	12	12
Isononane	250 mg/kg	n	No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Isononane	1000 mg/kg	n	No abnormality	12	12	12	12	12	12	12	12	12	12	12	12	12	12
<hr/>																	
Isononane	0 mg/kg	n	No abnormality	11	11	11	11	11	11	11	11	11	11	11	11	11	11
			Decrease in locomotor activity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Tachypnea	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isononane	60 mg/kg	n	No abnormality	12	12	12	12	12	12	12	12	12	12	12	12	12	12
				12	12	12	12	12	12	12	12	12	12	12	12	12	12
Isononane	250 mg/kg	n	No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Isononane	1000 mg/kg	n	No abnormality	12	12	12	12	12	12	12	12	12	12	12	12	12	12
<hr/>																	
Isononane	0 mg/kg	n	No abnormality	11	11	11	11	11	11	11	11	11	11	11	11	11	11
			Decrease in locomotor activity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Tachypnea	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isononane	60 mg/kg	n	No abnormality	12	12	12	12	12	12	12	12	12	12	12	12	12	12
				12	12	12	12	12	12	12	12	12	12	12	12	12	12
Isononane	250 mg/kg	n	No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Isononane	1000 mg/kg	n	No abnormality	12	12	12	12	12	12	12	12	12	12	12	12	12	12

a : One animal euthanized because of abnormal delivery (dystocia)

Period : F0 lactation Day 0-14

Test article	Dose	Sex : Female	Clinical sign														Species : Rat							
			Clinical signs		Day 0		Day 1		Time 1		Time 2		1		2		3		4		5		6		7
Isononane	n		No abnormality		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0 mg/kg	n		No abnormality		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Isononane	n		No abnormality		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
60 ng/kg	n		No abnormality		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Isononane	n		No abnormality		10 ^a	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
250 mg/kg	n		No abnormality		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
Isononane	n		No abnormality		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000 mg/kg	n		No abnormality		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isononane	n		Soil of perigenital fur		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
250 mg/kg	n		Soil of perianal fur		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Isononane	n		No abnormality		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000 mg/kg	n		No abnormality		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isononane	n		Decrease in locomotor activity		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250 mg/kg	n		Bradypnea		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isononane	n		Salivation		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Test article	Dose		Clinical signs														Species : Rat							
			Clinical signs		Day 8		9		10		11		12		13		14							
Isononane	n		No abnormality		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0 mg/kg	n		No abnormality		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Isononane	n		No abnormality		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
60 ng/kg	n		No abnormality		9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Isononane	n		No abnormality		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250 mg/kg	n		Soil of perigenital fur		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isononane	n		Soil of perianal fur		11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1000 mg/kg	n		No abnormality		11	10	11	10	11	10	11	10	11	10	11	10	11	10	11	10	11	10	11	10
Isononane	n		Decrease in locomotor activity		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
250 mg/kg	n		Bradypnea		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Isononane	n		Salivation		0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1

F0 lactation)1 : Before dosing, 2 : After dosing, 3 : Necropsy day

a : One animal euthanized because of abnormal delivery (stillbirth)

b : One animal euthanized because of moribund condition

Clinical sign
Sex : Female (satellite)

Test article Dose		Clinical signs										Species : Rat			
		Day Time		1		2		3		4		5	6	7	8
Isononane	n														
0 mg/kg	No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Isononane	n														
1000 mg/kg	No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	Decrease in locomotor activity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bradypnea	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Soil of perigenital fur	0	0	0	0	0	0	0	0	0	0	0	1	1	0

Test article Dose		Clinical signs										Species : Rat			
		Day Time		1		2		3		4		5	6	7	8
Isononane	n														
0 mg/kg	No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Isononane	n														
1000 mg/kg	No abnormality	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	Decrease in locomotor activity	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	Bradypnea	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Soil of perigenital fur	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Test article Dose		Clinical signs										Species : Rat			
		Day Time		1		2		3		4		5	6	7	8
Isononane	n														
0 mg/kg	No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Isononane	n														
1000 mg/kg	No abnormality	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	Decrease in locomotor activity	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	Bradypnea	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Soil of perigenital fur	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Test article Dose		Clinical signs										Species : Rat			
		Day Time		1		2		3		4		5	6	7	8
Isononane	n														
0 mg/kg	No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Isononane	n														
1000 mg/kg	No abnormality	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	Decrease in locomotor activity	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bradypnea	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Soil of perigenital fur	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Administration)1 : Before dosing, 2 : After dosing, 3 : Necropsy day

a : One animal euthanized because of moribund condition

Table 1 - 8

		Clinical sign Sex : Male										Period : Recovery Day 1-15								Species : Rat	
		Clinical signs										Day									
		Time										1 2 3 4 5 6 7 8									
Test article	Dose																				
Isononane	0 mg/kg	1	No abnormality									5	5	5	5	5	5	5	5	5	5
Isononane	1000 mg/kg	1	No abnormality									5	5	5	5	5	5	5	5	5	5
Test article	Dose											Day	9	10	11	12	13	14	15		
Isononane	0 mg/kg	1	No abnormality									Time	1	2	1	2	1	2	1	2	3
Isononane	1000 mg/kg	1	No abnormality									5	5	5	5	5	5	5	5	5	5
Recovery)1 : AM, 2 : PM, 3 : Necropsy day																					

Clinical sign
Sex : Female (satellite)

Test article	Dose	Clinical signs	Period : Recovery Day 1-15										Species : Rat		
			Day	1	2	3	4	5	6	7	8	9			
		Clinical signs	Time	1	2	1	2	1	2	1	2	1	2	1	2
Isononane	0 mg/kg	No abnormality		5	5	5	5	5	5	5	5	5	5	5	5
Isononane	1000 mg/kg	No abnormality		5	5	5	5	5	5	5	5	5	5	5	5
Test article	Dose	Clinical signs	Day	9	10	11	12	13	14	15					
			Time	1	2	1	2	1	2	1	2	1	2	3	
Isononane	0 mg/kg	No abnormality		5	5	5	5	5	5	5	5	5	5	5	5
Isononane	1000 mg/kg	No abnormality		5	5	5	5	5	5	5	5	5	5	5	5

Recovery)1 : AM, 2 : PM, 3 : Necropsy day

Table 2 - 1 Detailed clinical observation (in the cage)
Sex : Male

Stage	Group	Body position/ Posture 1	Respiratory pattern 1	Tremor/ Convulsion 1	Stereotype		Bizarre behavior	
					Repetitive circling 0	Rolling 0	Repetitive circling 0	Self biting 1
Pre	0 mg/kg	n	12	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	12
Day 7	0 mg/kg	n	12	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	12
Day 14	0 mg/kg	n	12	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	12
Day 21	0 mg/kg	n	12	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	12
Day 28	0 mg/kg	n	12	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	12

Body position(Posture) 1:Normal (sitting, etc.), 2:Sleeping, 3:Crouching, 4:Prone, lateral, 5:Standing, jumping, 6:Cataleptic.

Respiratory pattern 1:Normal, 2:Slightly abnormal or slow, 3:Moderately abnormal, difficult to breath, 4:Severe abnormal, labored, 5:Dyspnea.

Tremor/Convulsion 1:Not present, 2:Irregularly only the legs, 3:Durable only the legs, 4:Clonic, systemic, 5:Tonic, systemic.

Stereotype/Rolling 0:Not present, 1:Sometimes, 2:Frequently.

Bizarre behavior/Self biting) 1:Not present, 2:Present.

Not significantly different from isononane 0 mg/kg

Table 2 - 2

Detailed clinical observation (in the cage)
Sex : Female

Study No. : SR19180

Species : Rat

Stage	Group	Body position/ Posture 1	Respiratory pattern 1	Tremor/ Convulsion 1	Stereotype		Bizarre behavior	
					Repetitive circling 0	Rolling 0	Repetitive circling 0	Self biting 1
Pre	0 mg/kg	n	12	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	12
Day 7	0 mg/kg	n	12	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	12
Day 14	0 mg/kg	n	12	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	12
Day 21	0 mg/kg	n	12	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	12
Day 28	0 mg/kg	n	12	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	12

Body position(Posture) 1:Normal (sitting, etc.), 2:Sleeping, 3:Crouching, 4:Prone, lateral, 5:Standing, jumping, 6:Cataleptic.

Respiratory pattern 1:Normal, 2:Slightly abnormal or slow, 3:Moderately abnormal, difficult to breath, 4:Severe abnormal, labored, 5:Dyspnea.

Tremor/Convulsion 1:Not present, 2:Irregularly only the legs, 3:Durable only the legs, 4:Clonic, systemic, 5:Tonic, systemic.

Stereotype/Rolling 0:Not present, 1:Sometimes, 2:Frequently.

Bizarre behavior/Self biting) 1:Not present, 2:Present.

Not significantly different from isononane 0 mg/kg

Table 2 - 3

Detailed clinical observation (in the cage)
Sex : Female

Study No. : SR19180

Species : Rat

Stage	Group	Body position/ Posture 1	Respiratory pattern 1	Tremor/ Convulsion 1	Stereotype		Bizarre behavior Self biting 1
					Repetitive circling 0	Rolling 0	
Day 35	0 mg/kg	n	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12
Day 42	0 mg/kg	n	11	11	11	11	11
	60 mg/kg	n	12	12	12	12	12
	250 mg/kg	n	11	11	11	11	11
	1000 mg/kg	n	12	12	12	12	12
Day 49	0 mg/kg	n	11	11	11	11	11
	60 mg/kg	n	12	12	12	12	12
	250 mg/kg	n	10	10	10	10	10
	1000 mg/kg	n	11	11	11	11	11

Body position(Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataplectic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor(Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype(Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype(Repetitive circling) 0;Not present, 1;Sometimes, 2;Frequently.
 Bizarre behavior(Self biting) 1;Not present, 2;Present.
 Not significantly different from Isononane 0 mg/kg

Table 2 - 4

Detailed clinical observation (in the cage)
Sex : Female (satellite)

Study No. : SR19180

Species : Rat

Stage	Group	Body position/ Posture 1	Respiratory pattern 1	Tremor/ Convulsion 1	Stereotype		Bizarre behavior Self biting 1
					Repetitive circling 0	Rolling 0	
Pre	0 mg/kg 1000 mg/kg	n n	10 10	10 10	10 10	10 10	10 10
Day 7	0 mg/kg 1000 mg/kg	n n	10 9	10 9	10 9	10 9	10 9
Day 14	0 mg/kg 1000 mg/kg	n n	10 9	10 9	10 9	10 9	10 9
Day 21	0 mg/kg 1000 mg/kg	n n	10 9	10 9	10 9	10 9	10 9
Day 28	0 mg/kg 1000 mg/kg	n n	10 9	10 9	10 9	10 9	10 9

Body position(Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataplectic.

Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.

Tremor(Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.

Stereotype(Rolling) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype(Repetitive circling) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior(Self biting) 1;Not present, 2;Present.

Not significantly different from Isononane 0 mg/kg

Table 2 - 5

Detailed clinical observation (in the cage)
Sex : Male

Study No. : SR19180

Species : Rat

Stage	Group	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Stereotype		Bizarre behavior
					Repetitive	Rolling	
Recovery	0 mg/kg	n	5	5	5	5	5
Day 7	1000 mg/kg	n	5	5	5	0	5

Recovery	0 mg/kg	n	5	5	5	5	5
Day 14	1000 mg/kg	n	5	5	5	5	5

Body position(Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataplectic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor(Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Chronic, systemic, 5;Tonic, systemic.
 Stereotype(Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype(Repetitive circling) 0;Not present, 1;Sometimes, 2;Frequently.
 Bizarre behavior(Self biting) 1;Not present, 2;Present.
 Not significantly different from Isononane 0 mg/kg

Table 2 - 6

Detailed clinical observation (in the cage)
Sex : Female (satellite)

Study No. : SR19180

Species : Rat

Stage	Group	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Stereotype		Bizarre behavior
					Repetitive	Rolling	
Recovery	0 mg/kg	n	5	5	5	5	5
Day 7	1000 mg/kg	n	5	5	5	0	5

Recovery	0 mg/kg	n	5	5	5	5	5
Day 14	1000 mg/kg	n	5	5	5	5	5

Body position(Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataplectic.

Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5:Dyspnea.

Tremor(Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Chronic, systemic, 5;Tonic, systemic.

Stereotype(Rolling) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype(Repetitive circling) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior(Self biting) 1;Not present, 2;Present.

Not significantly different from Isononane 0 mg/kg

Table 3 - 1 Detailed clinical observation (on the hand)
Sex : Male

Stage	Group	Ease of Removal		Muscle tone		Piloerection		Fur		Eyes		Mucous membranes		Skin		Pupil size	Lacration	Salivation	Secretions/Excretions
		1	2	1	2	1	2	1	2	1	2	1	0	1	1	1	1	0	
Pre	0 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Day 7	0 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Day 14	0 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Day 21	0 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Day 28	0 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12

Ease of Removal) 1:Very easy, 2:Easy, 3:Slightly difficult, 4:Difficult, 5:Very difficult.

Ease of Handling) 1:Very easy, 2:Slightly difficult, 3:Difficult, 4:Difficult, 5:Very difficult.

Muscle tone) 1:Low, 2:Normal, 3:High.

Piloerection) 1:Normal, 2:Slightly present, around head and back, 3:Strongly present, systemic.

Fur) 1:Normal, 2:Slightly stained, 3:Stained.

Eyes) 1:Not present, normal, 2:Slight ptosis, half closed, 3:Ptosis, 4:Closed.

Mucous membranes) 1:Dark purplish appearance, cyanosis, 0:Normal, 1:Red appearance.

Skin) 0:Pale appearance, cyanosis, 1:Normal, 2:Red appearance.

Pupil size) 1:Normal, 2:Slightly mydriatic, 3:Mydriatic.

Lacration) 1:Not present, 2:Wet around the eye, 3:Wet, 4:Severely wet.

Salivation) 1:Not present, 2:Wet around the mouth, 3:Wet, 4:Severely wet.

Secretions/Excretions) 0:Not present, 1:Present.

Not significantly different from isononane 0 mg/kg

Table 3 - 2

Detailed clinical observation (on the hand)
Sex : Female

Study No. : SR19180

Species : Rat

Stage	Group	Ease of Removal			Muscle tone			Piloerection			Fur			Mucous membranes			Skin			Pupil size			Lacration			Salivation			Secretions/ Excretions		
		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
Pre	0 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	60 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	250 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	1000 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
Day 7	0 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	60 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	250 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	1000 mg/kg	n	12	12	12	12	12	12	1	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
Day 14	0 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	60 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	250 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	1000 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
Day 21	0 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	60 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	250 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	1000 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
Day 28	0 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	60 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	250 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
	1000 mg/kg	n	12	12	12	12	12	12	0	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		

Ease of Removal) 1:Very easy, 2:Easy, 3:Slightly difficult, 4:Difficult, 5:Very difficult.

Ease of Handling) 1:Very easy, 2:Easy, 3:Slightly difficult, 4:Difficult, 5:Very difficult.

Muscle tone) 1:Low, 2:Normal, 3:High.

Piloerection) 1:Normal, 2:Slightly present, around head and back, 3:Strongly present, systemic.

Fur) 1:Normal, 2:Slightly stained, 3:Stained.

Eyes) 1:Not present, normal, 2:Slight ptosis, half closed, 3:Ptosis, 4:Closed.

Mucous membranes) 1:Dark purplish appearance, cyanosis, 0:Normal, 1:Red appearance.

Skin) 0:Pale appearance, cyanosis, 1:Normal, 2:Red appearance.

Pupil size) 1:Normal, 2:Slightly mydriatic, 3:Mydriatic.

Lacration) 1:Not present, 2:Wet around the eye, 3:Wet, 4:Severely wet.

Salivation) 1:Not present, 2:Wet around the mouth, 3:Wet, 4:Severely wet.

Secretions/Excretions) 0:Not present, 1:Present.

Not significantly different from isononane 0 mg/kg

Table 3 - 3

Detailed clinical observation (on the hand)
Sex : Female

Study No. : SR19180

Species: Rat

Stage	Group	Ease of Removal		Muscle tone		Piloerection		Fur		Eyes		Mucous membranes		Skin		Pupil size		Lacration		Salivation		Secretions/Excretions		
		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	
Day 35	0 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	0	12	
	60 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	0	12	
	250 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	0	12	
	1000 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	0	12	
Day 42	0 mg/kg	n	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	0	11
	60 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	0	12
	250 mg/kg	n	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	0	11
	1000 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	0	12
Day 49	0 mg/kg	n	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	0	11
	60 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	0	12
	250 mg/kg	n	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0	10
	1000 mg/kg	n	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	0	11

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Muscle tone) 1;Low, 2;Normal, 3;High.

Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

Fur) 1;Normal, 2;Slightly stained, 3;Stained.

Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

Secretions/Excretions) 0;Not present, 1;Present.

Not significantly different from isononane 0 mg/kg

Table 3 - 4

Detailed clinical observation (on the hand)
Sex : Female (satellite)

Study No. : SR19180

Species: Rat

Stage	Group	Ease of Removal		Muscle tone		Piloerection		Fur		Eyes		Mucous membranes		Skin		Pupil size	Lacrimation	Salivation	Secretions/Excretions
		1	2	1	2	1	2	1	0	1	0	1	0	1	0	1	1	1	0
Pre	0 mg/kg 1000 mg/kg	n n	10 10	10 10	10 10	10 10	10 10	10 10	10 10	10 10	10 10	10 10	10 10	10 10	10 10	10 10	10 10	10 10	10 10
Day 7	0 mg/kg 1000 mg/kg	n n	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9
Day 14	0 mg/kg 1000 mg/kg	n n	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9
Day 21	0 mg/kg 1000 mg/kg	n n	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9
Day 28	0 mg/kg 1000 mg/kg	n n	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9	10 9

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Muscle tone) 1;Low, 2;Normal, 3;High.

Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

Fur) 1;Normal, 2;Slightly stained, 3;Stained.

Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

Secretions/Excretions) 0;Not present, 1;Present.

Not significantly different from isonanane 0 mg/kg

Table 3 - 5

Detailed clinical observation (on the hand)
Sex : Male

Study No. : SR19180

Species : Rat

Stage	Group	Ease of Removal		Muscle tone		Piloerection		Fur		Eyes		Mucous membranes		Skin		Pupil size		Lacrimation		Salivation		Secretions/Excretions	
		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Recovery Day 7	0 mg/kg 1000 mg/kg	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Recovery Day 14	0 mg/kg 1000 mg/kg	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Muscle tone) 1;Low, 2;Normal, 3;High.

Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
Fur) 1;Normal, 2;Slightly stained, 3;Stained.

Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

Secretions/Excretions) 0;Not present, 1;Present.

Not significantly different from isononane 0 mg/kg

Table 3 - 6

Detailed clinical observation (on the hand)
Sex : Female (satellite)

Study No. : SR19180

Species : Rat

Stage	Group	Ease of Removal		Muscle tone		Piloerection		Fur		Eyes		Mucous membranes		Skin		Pupil size		Lacrimation		Salivation		Secretions/Excretions	
		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Recovery Day 7	0 mg/kg 1000 mg/kg	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Recovery Day 14	0 mg/kg 1000 mg/kg	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Muscle tone) 1;Low, 2;Normal, 3;High.

Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

Fur) 1;Normal, 2;Slightly stained, 3;Stained.

Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

Secretions/Excretions) 0;Not present, 1;Present.

Not significantly different from isononane 0 mg/kg

Table 4 - 1 Detailed clinical observation (in the open field)
Sex : Male

Stage	Group	Reactivity			Urination			Stereotype			Bizarre behavior				
		Gait	Co-ordination of movement	Reactivity to stimuli	Searching	0	1	Defecation	0	1	Excessive grooming	Unusual head movement	Walking backward	Vocalization	Aggression
Pre	0 mg/kg	n	12	12	12	12	12	4	8	8	4	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	10	2	8	4	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	8	4	10	2	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	9	3	10	2	12	12	12	12
Day 7	0 mg/kg	n	12	12	12	12	12	10	2	10	2	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	11	1	8	4	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	8	4	9	3	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	9	3	10	2	12	12	12	12
Day 14	0 mg/kg	n	12	12	12	12	12	11	1	10	2	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	10	2	9	3	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12	0	11	1	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	9	3	11	1	12	12	12	12
Day 21	0 mg/kg	n	12	12	12	12	12	10	2	12	0	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	10	2	11	1	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	12	0	11	1	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	10	2	12	0	12	12	12	12
Day 28	0 mg/kg	n	12	12	12	12	12	10	2	11	1	12	12	12	12
	60 mg/kg	n	12	12	12	12	12	9	3	11	1	12	12	12	12
	250 mg/kg	n	12	12	12	12	12	11	1	12	0	12	12	12	12
	1000 mg/kg	n	12	12	12	12	12	9	3	12	0	12	12	12	12

Gait) 0: Not moved, 1: Normal; 2: Difficult to walk, 3: Unable to walk, paralytic.

Co-ordination of movement) 0:Staggering (ataxic), 1:Normal.

Reactivity to stimuli) 0:Not present, 1:Present (to noise, etc.).

Searching) 0:Not present, 1:Present (sniffing, standing, etc.).

Urination) 0:Not present, 1:Present.

Defecation) 0:Not present, 1:Present.

Stereotype/Excessive grooming) 0:Not present, 1:Sometimes, 2:Frequently.

Stereotype/Unusual head movement) 0:Not present, 1:Present, 2:Frequently.

Bizarre behavior/Walking backward) 1:Not present, 2:Present.

Bizarre behavior/Vocalization) 1:Not present, sometimes, 2:Present, frequently.

Aggression) 1:Not present, 2:Present.

Significantly different from Isconane 0 mg/kg: \$ P<0.05

ST : Steel test (two-side)

Table 4 - 2

Detailed clinical observation (in the open field)
Sex : Female

Study No. : SR19180

Stage	Group	Reactivity			Urination			Stereotype			Bizarre behavior		
		Gait	Co-ordination of movement	Reactivity to stimuli	Searching	0	1	Defecation	Excessive grooming	Unusual head movement	Walking backward	Vocalization	Aggression
Pre	0 mg/kg	n	12	12	12	5	7	12	0	12	12	12	12
	60 mg/kg	n	12	12	12	10	2	12	0	12	12	12	12
	250 mg/kg	n	12	12	12	7	5	12	0	12	12	12	12
	1000 mg/kg	n	12	12	12	9	3	11	1	12	12	12	12
Day 7	0 mg/kg	n	12	12	12	7	5	12	0	12	12	12	12
	60 mg/kg	n	12	12	12	10	2	12	0	12	12	12	12
	250 mg/kg	n	12	12	12	10	2	12	0	12	12	12	12
	1000 mg/kg	n	12	12	12	9	3	12	0	12	12	12	12
Day 14	0 mg/kg	n	12	12	12	6	6	12	0	12	12	12	12
	60 mg/kg	n	12	12	12	11	1	12	0	12	12	12	12
	250 mg/kg	n	12	12	12	10	2	12	0	12	12	12	12
	1000 mg/kg	n	12	12	12	10	2	12	0	12	12	12	12
Day 21	0 mg/kg	n	12	12	12	9	3	12	0	12	12	12	12
	60 mg/kg	n	12	12	12	10	2	12	0	12	12	12	12
	250 mg/kg	n	12	12	12	10	2	12	0	12	12	12	12
	1000 mg/kg	n	12	12	12	9	3	12	0	12	12	12	12
Day 28	0 mg/kg	n	12	12	12	10	2	12	0	12	12	12	12
	60 mg/kg	n	12	12	12	11	1	12	0	12	12	12	12
	250 mg/kg	n	12	12	12	11	1	11	1	12	12	12	12
	1000 mg/kg	n	12	12	12	10	2	11	1	12	12	12	12

Gait) 0; Not moved, 1; Normal, 2; Difficult to walk, 3; Unable to walk, paralytic.

Co-ordination of movement) 0; Staggering (ataxic), 1; Normal.

Reactivity to stimuli) 0; Not present, 1; Present (to noise, etc.).

Searching) 0; Not present, 1; Present (sniffing, standing, etc.).

Urination) 0; Not present, 1; Present.

Defecation) 0; Not present, 1; Present.

Stereotype/Excessive grooming) 0; Not present, 1; Sometimes, 2; Frequently.

Stereotype/Unusual head movement) 0; Not present, 1; Sometimes, 2; Frequently.

Bizarre behavior/Walking backward) 1; Not present, 2; Present.

Bizarre behavior/Vocalization) 1; Not present, sometimes, 2; Present, frequently.

Aggression) 1; Not present, 2; Present.

Not significantly different from isononane 0 mg/kg

Table 4 - 3 Detailed clinical observation (in the open field)
Sex : Female

Stage	Group	Reactivity			Urination			Defecation			Stereotype			Bizarre behavior		
		Gait	Co-ordination of movement	Reactivity to stimuli	Searching	0	1	0	1	0	Excessive grooming	Unusual head movement	Walking backward	Vocalization	Aggression	
Day 35	0 mg/kg	n	12	12	12	9	3	12	0	12	0	12	12	12	12	12
	60 mg/kg	n	12	12	12	12	0	12	0	12	0	12	12	12	12	12
	250 mg/kg	n	12	12	12	12	0	11	1	12	0	12	12	12	12	12
	1000 mg/kg	n	12	12	12	9	3	10	2	12	0	12	12	12	12	12
Day 42	0 mg/kg	n	11	11	11	10	1	11	0	9	2	11	11	11	11	11
	60 mg/kg	n	12	12	12	11	1	12	0	11	1	12	12	12	12	12
	250 mg/kg	n	11	11	11	8	3	10	1	11	0	11	11	11	11	11
	1000 mg/kg	n	12	12	12	8	4	10	2	12	0	12	12	12	12	12
Day 49	0 mg/kg	n	11	11	11	7	4	11	0	9	2	11	11	11	11	11
	60 mg/kg	n	12	12	12	10	2	12	0	10	2	12	12	12	12	12
	250 mg/kg	n	10	10	10	6	4	10	0	9	1	10	10	10	10	10
	1000 mg/kg	n	11	11	11	5	6	10	1	9	2	11	11	11	11	11

Gait) 0; Not moved, 1; Normal, 2; Difficult to walk, 3; Unable to walk, paralytic.
Co-ordination of movement) 0; Staggering (ataxic), 1; Normal.
Reactivity to stimuli) 0; Not present, 1; Present (to noise, etc.).
Searching) 0; Not present, 1; Present (sniffing, standing, etc.).
Urination) 0; Not present, 1; Present.

Defecation) 0; Not present, 1; Present.

Stereotype/Excessive grooming) 0; Not present, 1; Sometimes, 2; Frequently.
Stereotype/Unusual head movement) 0; Not present, 1; Sometimes, 2; Frequently.

Bizarre behavior/Walking backward) 1; Not present, 2; Present.

Bizarre behavior/Vocalization) 1; Not present, sometimes, 2; Present, frequently.

Aggression) 1; Not present, 2; Present.

Not significantly different from isononane 0 mg/kg

Table 4 - 4

Study No. : SR19180

Detailed clinical observation (in the open field)
Sex : Female (satellite)

Stage	Group	Reactivity			Urination			Stereotype			Bizarre behavior			
		Gait	Co-ordination of movement	Reactivity to stimuli	Searching	0	1	0	1	Excessive grooming	Unusual head movement	Walking backward	Vocalization	Aggression
Pre	0 mg/kg 1000 mg/kg	n n	10 10	10 10	10 10	5 8	5 2	9 10	1 0	10 10	0 0	10 10	10 10	10 10
Day 7	0 mg/kg 1000 mg/kg	n n	10 9	10 9	10 9	5 9	5 0	8 9	2 0	10 9	0 0	10 9	10 9	10 9
Day 14	0 mg/kg 1000 mg/kg	n n	10 9	10 9	10 9	7 9	3 0	9 9	1 0	9 9	1 0	10 9	10 9	10 9
Day 21	0 mg/kg 1000 mg/kg	n n	10 9	10 9	10 9	7 8	3 1	9 9	1 0	10 9	0 0	10 9	10 9	10 9
Day 28	0 mg/kg 1000 mg/kg	n n	10 9	10 9	10 9	7 9	3 0	10 9	0 0	10 9	0 0	10 9	10 9	10 9

Gait) 0; Not moved, 1; Normal, 2; Difficult to walk, 3; Unable to walk, paralytic.
 Co-ordination of movement) 0; Staggering (ataxic), 1; Normal.
 Reactivity to stimuli) 0; Not present, 1; Present (to noise, etc.).
 Searching) 0; Not present, 1; Present (sniffing, standing, etc.).
 Urination) 0; Not present, 1; Present.

Defecation) 0; Not present, 1; Present.

Stereotype/Excessive grooming) 0; Not present, 1; Sometimes, 2; Frequently.
 Stereotype/Unusual head movement) 0; Not present, 1; Sometimes, 2; Frequently.

Bizarre behavior/Walking backward) 1; Not present, 2; Present.

Bizarre behavior/Vocalization) 1; Not present, sometimes, 2; Present, frequently.
 Aggression) 1; Not present, 2; Present.Significantly different from Iscononane 0 mg/kg: \$ P<0.05
 W2 : Wilcoxon rank sum test (two-side)

Table 4 - 5

Detailed clinical observation (in the open field)
Sex : Male

Study No. : SR19180

Species : Rat

Stage	Group	Reactivity			Urination			Defecation			Stereotype			Bizarre behavior			
		Gait	Co-ordination of movement	Reactivity to stimuli	Searching	0	1	0	1	0	1	Excessive grooming	Unusual head movement	0	0	Walking backward	Vocalization	Aggression
Recovery Day 7	0 mg/kg 1000 mg/kg	n n	5 5	5 5	5 5	4 5	1 0	5 5	0 0	5 5	0 0	5 5	5 5	5 5	5 5	5 5	5 5
Recovery Day 14	0 mg/kg 1000 mg/kg	n n	5 5	5 5	5 5	4 5	1 0	4 5	1 0	5 5	1 0	5 5	5 5	5 5	5 5	5 5	5 5

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Not significantly different from isononane 0 mg/kg

Table 4 - 6
Detailed clinical observation (in the open field)
Sex : Female (satellite)

Stage	Group	Reactivity			Urination			Defecation			Stereotype			Bizarre behavior		
		Gait	Co-ordination of movement	Reactivity to stimuli	Searching	0	1	Urination	0	1	Excessive grooming	Unusual head movement	0	0	Walking backward	Vocalization	Aggression
Recovery Day 7	0 mg/kg 1000 mg/kg	n n	5 5	5 5	5 5	3 5	2 0	5 5	5 5	5 5	5 5	5 5	5 5	5 5	5 5	5 5
Recovery Day 14	0 mg/kg 1000 mg/kg	n n	5 5	5 5	5 5	4 5	1 0	5 5	5 5	5 5	5 5	5 5	5 5	5 5	5 5	5 5

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Not significantly different from isononane 0 mg/kg

Table 5 - 1

Functional observations (on the desk)
Sex : Male

Stage : Week 4

Study No. : SR19180

Species : Rat

Group	Reactivity					Righting reflex
	/Visual 4	Touch 2	Auditory 1	Pain 2	Proprioceptive 1	
0 mg/kg	n	5	5	5	5	5
60 mg/kg	n	5	5	5	5	5
250 mg/kg	n	5	5	5	5	5
1000 mg/kg	n	5	5	5	5	5

Visual reactivity) 1:Jumping, 2:Turning away, 3:No reaction, 4:Approach, 5:Attack.

Touch reactivity) 1:Hyposensitive, 2:Turning away, 3:Hypersensitive.

Auditory reactivity) 0;No reaction, 1:Normal, moving the auricle, 2:Sensitive, moving the body, 3:Hypersensitive, surprising and jumping.

Pain reactivity) 0>No reaction, 1:Dull, vocalizing, 2:Normal, vocalizing and turning back, 3:Hypersensitive, attacking or jumping.

Proprioceptive reactivity) 0;No returning, 1:Returning.

Righting reflex) 1:Normal, landing by foot, 2:Abnormal, landing by body.

Not significantly different from isonanane 0 mg/kg

Table 5 - 2

Functional observations (on the desk)
Sex : Female

Stage : Lactation Day 13

Study No. : SR19180

Species : Rat

Group	Reactivity					Righting reflex
	/Visual	Touch	Auditory	Pain	Proprioceptive	
	4	2	1	2	1	
0 mg/kg	n	5	5	5	5	5
60 mg/kg	n	5	5	5	5	5
250 mg/kg	n	5	5	5	5	5
1000 mg/kg	n	5	5	5	5	5

Visual reactivity) 1:Jumping, 2:Turning away, 3:No reaction, 4:Approach, 5:Attack.

Touch reactivity) 1:Hyposensitive, 2:Turning away, 3:Hypersensitive.

Auditory reactivity) 0;No reaction, 1:Normal, moving the auricle, 2:Sensitive, moving the body, 3:Hypersensitive, surprising and jumping.

Pain reactivity) 0>No reaction, 1:Dull, vocalizing, 2:Normal, vocalizing and turning back, 3:Hypersensitive, attacking or jumping.

Proprioceptive reactivity) 0;No returning, 1:Returning.

Righting reflex) 1:Normal, landing by foot, 2:Abnormal, landing by body.

Not significantly different from isonanane 0 mg/kg

Table 5 - 3

Functional observations (on the desk)
Sex : Female (satellite)

Stage : Week 4

Study No. : SR19180

Species : Rat

Group	Reactivity					Righting reflex
	/Visual	Touch	Auditory	Pain	Proprioceptive	
	4	2	1	2	1	1
0 mg/kg	n	5	5	5	5	5
1000 mg/kg	n	5	5	5	5	5

Visual reactivity) 1:Jumping, 2:Turning away, 3:No reaction, 4:Approach, 5:Attack.

Touch reactivity) 1:Hypo sensitive, 2:Turning away, 3:Hypersensitive.

Auditory reactivity) 0;No reaction, 1:Normal, moving the auricle, 2:Sensitive, moving the body, 3:Hypersensitive, surprising and jumping.

Pain reactivity) 0;No reaction, 1:Dull, vocalizing, 2:Normal, vocalizing and turning back, 3:Hypersensitive, attacking or jumping.

Proprioceptive reactivity) 0;No returning, 1:Returning.

Righting reflex) 1:Normal, landing by foot, 2:Abnormal, landing by body.

Not significantly different from isonanane 0 mg/kg

Table 5 - 4

Functional observations (on the desk)
Sex : Male
Stage : Recovery Week 2

Study No. : SR19180

Species : Rat

Group	Reactivity						Righting reflex
	/Visual	Touch	Auditory	Pain	Proprioceptive		
	4	2	1	2	1	1	1
0 mg/kg	n	5	5	5	5	5	5
1000 mg/kg	n	5	5	5	5	5	5

Visual reactivity) 1:Jumping, 2:Turning away, 3:No reaction, 4:Approach, 5:Attack.

Touch reactivity) 1:Hyposensitive, 2:Turning away, 3:Hypersensitive.

Auditory reactivity) 0;No reaction, 1:Normal, moving the auricle, 2:Sensitive, moving the body, 3:Hypersensitive, surprising and jumping.

Pain reactivity) 0;No reaction, 1:Dull, vocalizing, 2:Normal, vocalizing and turning back, 3:Hypersensitive, attacking or jumping.

Proprioceptive reactivity) 0;No returning, 1:Returning.

Righting reflex) 1:Normal, landing by foot, 2:Abnormal, landing by body.

Not significantly different from isonanane 0 mg/kg

Table 6 - 1

Study No. : SR19180

Stage : Week 4

Test article Dose		Grip strength		Forelimb Hindlimb	Species : Rat
		Sex : Male	g		
Isononane 0 mg/kg		n	9	g	
		Mean S.D.	1408.68 53.12	447.80 54.34	
Isononane 60 mg/kg		n	5	5	
		Mean S.D.	1332.40 85.44	427.14 6.39	
Isononane 250 mg/kg		n	5	5	
		Mean S.D.	1401.74 68.01	411.52 80.00	
Isononane 1000 mg/kg		n	5	5	
		Mean S.D.	1472.54 69.87	438.94 99.09	

Not significantly different from Isononane 0 mg/kg

Table 6 - 2

Study No. : SR19180

Stage : Lactation Day 13

Test article Dose		Grip strength		Forelimb Hindlimb	Species : Rat
		Sex : Female			
Isononane 0 mg/kg		n	g	g	
		Mean S.D.	1340.20 71.47	345.52 29.87	
Isononane 60 mg/kg		n	5	5	
		Mean S.D.	1303.40 106.17	359.42 35.22	
Isononane 250 mg/kg		n	5	5	
		Mean S.D.	1357.82 57.66	367.40 43.40	
Isononane 1000 mg/kg		n	5	5	
		Mean S.D.	1289.68 105.48	397.94 30.35	

Not significantly different from Isononane 0 mg/kg

Table 6 - 3

Study No. : SR19180

Test article Dose		Grip strength		Stage : Week 4	
		Sex : Female (satellite) Forelimb	Hindlimb	Species : Rat	
Isononane 0 mg/kg		n Mean S.D.	5 1176.84 111.11	5 359.86 8.74	
Isononane 1000 mg/kg		n Mean S.D.	5 1246.60 82.69	5 398.92 58.68	

Not significantly different from Isononane 0 mg/kg

Table 6 - 4

Study No. : SR19180

Grip strength
Sex : Male

		Stage : Recovery Week 2			Species : Rat
Test article	Dose	Forelimb	Hindlimb		
Isononane	0 mg/kg	n	g	g	
		Mean	1478.18	500.4	
		S.D.	61.58	50.17	
Isononane	1000 mg/kg	n	5	5	
		Mean	1545.52	522.52	
		S.D.	73.16	48.22	

Not significantly different from Isononane 0 mg/kg

Table 7 - 1

Study No. : SR19180

Test article Dose		Motor activity measurements				Stage : Week 4				Species : Rat No.
		No.	No.	No.	No.	No.	No.	No.	No.	
Isononane 0 mg/kg	n	5	5	5	5	5	5	5	5	
	Mean S.D.	331.2 141.0	143.6 72.1	129.2 73.3	72.2 76.7	71.2 84.3	18.4 35.3	18.4 35.3	18.4 35.3	
Isononane 60 mg/kg	n	5	5	5	5	5	5	5	5	
	Mean S.D.	292.2 125.0	147.0 71.2	85.0 39.9	40.2 39.1	12.8 13.0	59.0 120.4	59.0 120.4	59.0 120.4	
Isononane 250 mg/kg	n	5	5	5	5	5	5	5	5	
	Mean S.D.	417.4 84.4	285.8 115.4	173.4 95.8	124.6 59.5	62.0 61.0	74.0 94.6	74.0 94.6	74.0 94.6	
Isononane 1000 mg/kg	n	5	5	5	5	5	5	5	5	
	Mean S.D.	409.8 110.6	304.6 111.6	170.4 107.0	52.2 56.9	43.8 45.1	37.2 54.1	37.2 54.1	37.2 54.1	

Significantly different from Isononane 0 mg/kg: * P<0.05
DT: Dunnett test (two-side)

Table 7 - 2

Study No. : SR19180

Test article Dose	Isononane 0 mg/kg	Motor activity measurements						Species : Rat No.
		Sex : Female			Stage : Lactation Day 13			
		0' - 10'	10' - 20'	20' - 30'	30' - 40'	40' - 50'	50' - 60'	0' - 60'
No.	No.	No.	No.	No.	No.	No.	No.	No.
n	5	5	5	5	5	5	5	5
Mean	580.2	287.0	139.4	157.6	110.4	82.6	1357.2	
S.D.	216.6	239.5	150.8	35.3	120.1	74.2	717.7	
n	5	5	5	5	5	5	5	5
Mean	415.6	171.2	55.2	93.4	89.6	44.6	869.6	
S.D.	152.5	141.0	69.8	100.3	88.4	58.1	447.4	
n	5	5	5	5	5	5	5	5
Mean	332.6	125.2	34.8	45.4	25.2	11.4	574.6	
S.D.	157.9	109.3	72.3	66.8	44.6	22.7	342.8	
n	5	5	5	5	5	5	5	5
Mean	306.0	103.2	67.4	75.6	10.6	13.6	576.4	
S.D.	182.5	102.1	70.2	37.2	11.3	30.4	370.1	

Significantly different from Isononane 0 mg/kg: * P<0.05
DT: Dunnett test (two-side)

Table 7 - 3

Study No. : SR19180

Test article Dose	Motor activity measurements						Species : Rat
	Sex : Female (satellite)		Stage : Week 4		0' - 60'		
	No.	No.	No.	No.	No.	No.	No.
Isononane 0 mg/kg	n Mean S.D.	5 502.6 185.9	5 308.0 169.0	5 195.0 161.6	5 43.0 52.3	5 71.2 52.1	5 54.4 51.4
Isononane 1000 mg/kg	n Mean S.D.	5 508.0 158.7	5 295.4 131.2	5 195.0 148.1	5 168.6 144.1	5 43.2 64.6	5 109.2 102.3

Not significantly different from Isononane 0 mg/kg

Table 7 - 4

Study No. : SR19180

Test article Dose		Motor activity measurements						Stage : Recovery Week 2						Species : Rat
		Sex : Male		0' - 10'		10' - 20'		20' - 30'		30' - 40'		40' - 50'		
No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
Isononane 0 mg/kg	n	5	362.2	141.6	5	98.4	18.6	5	22.6	5	4.6	5	648.0	5
	Mean S.D.	201.5	90.6	114.4	114.4	15.1	39.0	15.1	39.0	10.3	10.3	388.6		
Isononane 1000 mg/kg	n	5	462.4	250.8	5	113.2	95.6	5	68.8	5	60.2	5	1051.0	5
	Mean S.D.	215.8	190.8	93.8	120.5	120.5	79.1	120.5	79.1	131.8	131.8	774.9		

Not significantly different from Isononane 0 mg/kg

Table 8 - 1

Study No. : SR19180

Test article Dose	n	Body weight Sex : Male			Period : Administration Day 1-28			Unit : g	Species : Rat
		/Day	1	4	7	14	21		
Isononane 0 mg/kg	Mean S.D.	439.1 23.9	445.3 21.9	457.3 23.3	482.8 28.0	505.5 29.3	525.7 33.0	12 12 86.6 22.2	12
Isononane 60 mg/kg	Mean S.D.	438.9 18.2	450.3 18.7	460.8 18.6	484.1 23.0	503.9 22.4	519.5 26.3	12 12 80.6 12.9	12
Isononane 250 mg/kg	Mean S.D.	440.3 25.1	449.2 23.7	460.4 26.6	480.8 29.4	500.7 27.4	517.0 30.5	12 12 76.8 14.9	12
Isononane 1000 mg/kg	Mean S.D.	441.0 23.1	446.3 25.5	455.3 26.1	474.8 34.3	485.7 34.3	500.4 36.7	12 12 59.4 21.1	12

Significantly different from Isononane 0 mg/kg: ** P<0.01
DT : Dunnett test (two-side)

Period : F0 before mating Day 1-14

Test article Dose	n	Body weight Sex : Female /Day			Period : F0 before mating Day 1-14			Unit : g	Species : Rat
		1	4	7	12	14	Body weight gain		
Isononane 0 mg/kg	n	272.2	276.4	280.9	291.0	291.0	12	12	12
	Mean	272.2	276.4	280.9	291.0	291.0	18.8		
	S.D.	12.2	10.4	11.8	15.5	15.5	11.8		
Isononane 60 mg/kg	n	269.2	273.4	279.4	286.7	286.7	12	12	12
	Mean	269.2	273.4	279.4	286.7	286.7	17.5		
	S.D.	12.5	9.9	11.1	14.6	14.6	9.5		
Isononane 250 mg/kg	n	266.6	270.3	273.9	282.3	282.3	12	12	12
	Mean	266.6	270.3	273.9	282.3	282.3	15.8		
	S.D.	11.7	11.4	12.1	12.8	12.8	6.8		
Isononane 1000 mg/kg	n	268.8	264.9	268.2	279.5	279.5	12	12	12
	Mean	268.8	264.9	268.2	279.5	279.5	10.7		
	S.D.	10.0	15.5	21.4	12.8	12.8	6.3		

Not significantly different from Isononane 0 mg/kg

Body weight
Sex : Female

Test article Dose		Period : F0 gestation Day 0-20				Unit : g	Species : Rat
		Day 0	7	14	20		
Isononane 0 mg/kg	n	11	11	11	11	11	11
	Mean	299.6	330.8	365.8	440.2	140.5	
	S.D.	9.8	15.0	19.9	24.0	19.9	
Isononane 60 mg/kg	n	12	12	12	12	12	12
	Mean	295.0	323.3	358.8	437.1	142.1	
	S.D.	14.8	17.1	15.9	17.1	24.1	
Isononane 250 mg/kg	n	10	10	10	10	10	10
	Mean	295.6	327.1	359.2	444.7	149.1	
	S.D.	21.1	22.0	22.5	32.5	25.2	
Isononane 1000 mg/kg	n	12	12	12	12	12	12
	Mean	284.3	311.9	345.8	422.7	138.4	
	S.D.	11.8	11.5	14.4	20.7	17.3	
	DT *	DT *	DT *	DT *	DT *	DT *	

Significantly different from Isononane 0 mg/kg: * P<0.05
 DT : Dunnett test (two-side)

Period : F0 lactation Day 0-13

Test article Dose		Sex : Female Day	Body weight			Period : F0 lactation Day 0-13	Unit : g	Species : Rat
			0	4	7			
Isononane 0 mg/kg		n Mean S.D.	10 349.8 16.9	10 362.7 21.7	10 370.4 16.3	13 374.4 16.8	10 24.6 8.9	
Isononane 60 mg/kg		n Mean S.D.	12 346.7 20.5	12 354.2 20.8	12 360.6 21.7	12 361.8 13.9	12 15.1 13.3	
Isononane 250 mg/kg		n Mean S.D.	10 338.0 22.2	9 361.6 20.1	9 363.1 17.8	9 364.0 22.6	9 21.8 11.2	
Isononane 1000 mg/kg		n Mean S.D.	12 322.9 18.3	11 344.5 16.5	11 349.2 21.7	11 355.1 20.8	11 28.5 15.2	

Significantly different from Isononane 0 mg/kg: ** P<0.01
DT : Dunnett test (two-side)

Body weight
Sex : Female (satellite)

Test article Dose	Period : Administration Day 1-28						Unit : g	Species : Rat	
	Day 1		4		7				
	n	10	10	10	10	10	10	10	Body weight gain
Isononane	n	268.9	273.3	277.6	290.3	299.0	303.4	303.4	10
0 mg/kg	Mean	268.9	273.3	277.6	290.3	299.0	303.4	303.4	34.5
	S.D.	8.4	7.8	8.6	10.4	10.3	11.5	11.5	8.7
Isononane	n	10	10	10	9	9	9	9	9
1000 mg/kg	Mean	265.2	264.4	262.6	275.4	282.6	288.8	288.8	24.9
	S.D.	8.2	6.5	19.1	7.3	9.7	10.4	10.4	11.2
	T2 *		A2 *		T2 **		T2 **		T2 *

Significantly different from Isononane 0 mg/kg: * P<0.05, ** P<0.01
A2 : Welch test (two-side), T2 : Student t-test (two-side)

Period : Recovery Day 1-14

Test article Dose		Body weight Sex : Male			Period : Recovery Day 1-14			Unit : g	Species : Rat
		Day	1	7	14		Body weight gain		
Isononane 0 mg/kg		n	5	5	5	5	5	5	
		Mean	523.4	536.2	546.2	546.2	22.8		
		S.D.	18.3	18.4	18.0	18.0	9.7		
Isononane 1000 mg/kg		n	5	5	5	5	5	5	
		Mean	485.6	501.0	517.0	517.0	31.4		
		S.D.	18.8	16.4	14.3	14.3	5.3		
		T2 *	T2 *	T2 *	T2 *	T2 *	T2 *		

Significantly different from Isononane 0 mg/kg: * P<0.05
T2 : Student t-test (two-side)

Period : Recovery Day 1-14

Test article Dose		Body weight Sex : Female (satellite)			Period : Recovery Day 1-14			Unit : g	Species : Rat
		n	Day 1	7	14		Body weight gain		
Isononane 0 mg/kg		n	5	5	5		5	5	
		Mean	304.8	308.8	315.2		10.4		
		S.D.	12.5	14.2	16.0		4.8		
Isononane 1000 mg/kg		n	5	5	5		5		
		Mean	290.0	300.4	302.0		12.0		
		S.D.	11.1	15.2	18.7		8.4		

Not significantly different from Isononane 0 mg/kg

Test article Dose	Isononane	Food consumption Sex : Male			Period : Administration Day 1-28			Unit : g	Species : Rat
		n	Day 4	7	14	28			
0 mg/kg		Mean	22.41	22.82	23.31	22.35			
		S.D.	1.72	1.81	2.39	2.61			
Isononane 60 mg/kg		n	12	12	12	12			
		Mean	23.89	22.80	23.37	22.46			
		S.D.	1.29	1.91	1.69	1.78			
Isononane 250 mg/kg		n	12	12	12	12			
		Mean	22.31	22.08	22.31	21.88			
		S.D.	1.52	1.85	1.79	1.92			
Isononane 1000 mg/kg		n	12	12	12	12			
		Mean	19.92	23.13	24.33	24.82			
		S.D.	2.93	2.19	2.59	2.76			
					DT *				

Significantly different from Isononane 0 mg/kg: * P<0.05
 DT : Dunnett test (two-side)

Table 9 - 2

Study No. : SR19180

Period : F0 before mating Day 1-14

Test article Dose	Food consumption Sex : Female /Day			Period : F0 before mating Day 1-14			Unit : g	Species : Rat
	n	4	7	12	14			
Isononane 0 mg/kg	Mean S.D.	16.76 1.67		16.53 1.67		16.95 2.00		
Isononane 60 mg/kg	Mean S.D.	16.15 1.75		15.73 1.87		15.80 1.55		
Isononane 250 mg/kg	Mean S.D.	15.43 1.39		14.80 1.13		15.52 1.26		
Isononane 1000 mg/kg	Mean S.D.	12.23 4.63		12.10 3.93		16.64 2.17		

Significantly different from Isononane 0 mg/kg: * P<0.05, ** P<0.01
 ST : Steel test (two-side)

Table 9 - 3

Test article Dose		Food consumption Sex : Female			Period : F0 gestation Day 0-20	Unit : g	Species : Rat
		Day 7	14	20			
Isononane 0 mg/kg		n Mean S.D.	11 20.46 2.06	11 22.56 3.20	11 21.58 2.42		
Isononane 60 mg/kg		n Mean S.D.	12 19.32 2.22	12 21.63 1.83	12 21.88 2.00		
Isononane 250 mg/kg		n Mean S.D.	10 20.76 2.18	10 22.17 2.07	10 22.35 1.07		
Isononane 1000 mg/kg		n Mean S.D.	12 20.90 1.37	12 22.63 1.41	12 23.48 1.56		
					DT *		

Significantly different from Isononane 0 mg/kg: * P<0.05
 DT : Dunnett test (two-side)

Table 9 - 4

Test article Dose		Sex : Female	Period : F0 lactation Day 0-13			Unit : g	Species : Rat
			-Day 4	7	13		
Isononane 0 mg/kg		n Mean S.D.	10 30.45 2.66	10 43.39 3.61	10 51.00 3.22		
Isononane 60 mg/kg		n Mean S.D.	12 27.34 5.82	12 38.72 6.59	12 46.83 8.08		
Isononane 250 mg/kg		n Mean S.D.	9 30.94 5.04	9 41.32 2.62	9 50.63 3.81		
Isononane 1000 mg/kg		n Mean S.D.	11 29.24 7.05	11 38.95 7.93	11 47.26 8.56		

Not significantly different from Isononane 0 mg/kg

Table 9 - 5

Study No. : SR19180

Food consumption
Sex : Female (satellite)

Test article Dose	Food consumption /Day			Period : Administration Day 1-28			Unit : g	Species : Rat
	4	7	14	21	28			
Isononane 0 mg/kg	n Mean S.D.	10 16.02 1.45	10 16.50 1.58	10 17.02 1.91	10 16.17 1.45	10 15.94 1.31		
Isononane 1000 mg/kg	n Mean S.D. A2 **	10 12.30 3.51 A2 **	10 11.62 5.03 A2 *	9 16.96 1.31 A2 *	9 17.31 1.44 0.66	9 16.96 0.66		

Significantly different from Isononane 0 mg/kg: * P<0.05, ** P<0.01
 A2 : Welch test (two-side)

Table 9 - 6

Study No. : SR19180

Test article Dose	Food consumption			Period : Recovery Day 1-14	Unit : g	Species : Rat
	Sex : Male		/Day			
	n	5	14			
Isononane 0 mg/kg	Mean	25.66	5			
	S.D.	1.65	26.60			
			1.74			
Isononane 1000 mg/kg	Mean	28.48	5			
	S.D.	1.97	27.36			
			2.28			

T2 *
Significantly different from Isononane 0 mg/kg. * P<0.05
T2 : Student t-test (two-side)

Food consumption
Sex : Female (satellite)

Test article Dose	Food consumption /Day			Period : Recovery Day 1-14	Unit : g	Species : Rat
	n	Mean	S.D.			
Isononane 0 mg/kg	5	20.66	20.32			
Isononane 1000 mg/kg	5	20.70	19.88			

Not significantly different from Isononane 0 mg/kg

Table 10 - 1

Study No. : SR19180

		Urinary findings Sex : Male						Stage : Week 4			Species : Rat		
								pH					
Test article	Dose	5.0	6.0	6.5	7.0	0	7.5	0	8.0	2	8.5	3	
Isononane	0 mg/kg	n	0	0	0	0	0	0	0	0	0	5	
Isononane	60 mg/kg	n	0	0	0	0	0	0	0	0	0	5	
Isononane	250 mg/kg	n	0	0	0	0	0	0	0	2	3	3	
Isononane	1000 mg/kg	n	0	0	0	0	0	2	1	1	2	2	
<hr/>													
<hr/>													
Glucose													
Test article	Dose	-	+	2+	3+	-	±	5	0	+	2+	3+	
Isononane	0 mg/kg	n	5	0	0	0	-	5	0	0	0	0	
Isononane	60 mg/kg	n	5	0	0	0	±	5	0	+	2+	3+	
Isononane	250 mg/kg	n	5	0	0	0	5	0	0	0	0	0	
Isononane	1000 mg/kg	n	5	0	0	0	5	0	0	0	0	0	

Not significantly different from Isononane 0 mg/kg

Table 10 - 2

Study No. : SR19180

Test article	Dose	Urinary findings				Stage : Week 4				Species : Rat								
		Sex : Male	Urobilinogen	EU/dL	2	4	8	0	-		5	+	0	2+	0	3+	0	
Isononane	n	5	0	0	0	0	0	0	-									
0 mg/kg																		
Isononane	n	5	0	0	0	0	0	0	-									
60 mg/kg																		
Isononane	n	5	0	0	0	0	0	0	-									
250 mg/kg																		
Isononane	n	5	0	0	0	0	0	0	-									
1000 mg/kg																		
<hr/>																		
Occult blood															Color			
Test article	Dose														A	B	C	D
Isononane	n	-	5	±	0	+	2+	0	3+						5	0	0	0
0 mg/kg																		
Isononane	n	5	0	0	0	0	0	0	-						5	0	0	0
60 mg/kg																		
Isononane	n	5	0	0	0	0	0	0	-						5	0	0	0
250 mg/kg																		
Isononane	n	5	0	0	0	0	0	0	-						5	0	0	0
1000 mg/kg																		

Color) A : Pale yellow or yellow, B : Orange yellow, C : Red brown, D : Creamy white
 Not significantly different from Isononane 0 mg/kg

Table 10 - 3

Study No. : SR19180

Test article	Dose	Urinary findings						Species : Rat
		Sex : Male			Protein			
		-	+	2+	3+	4+		
Isononane	n	0	2	3	0	0	0	
0 mg/kg								
Isononane	n	0	2	3	0	0	0	
60 mg/kg								
Isononane	n	0	2	3	0	0	0	
250 mg/kg								
Isononane	n	0	1	4	0	0	0	
1000 mg/kg								

Not significantly different from Isononane 0 mg/kg

Table 10 - 4

Study No. : SR19180

Test article Dose	Urinary findings			Species : Rat
	Sex : Male	Urine volume mL/21hr	Stage : Week 4	
Isononane 0 mg/kg	n Mean S.D.	5 10.90 1.64		
Isononane 60 mg/kg	n Mean S.D.	5 10.20 3.09		
Isononane 250 mg/kg	n Mean S.D.	5 14.50 11.20		
Isononane 1000 mg/kg	n Mean S.D.	5 17.80 6.05		
			ST *	
Significantly different from Isononane 0 mg/kg: * P<0.05				
ST : Steel test (two-side)				

Test article	Dose	Urinary findings					Species : Rat
		Sex : Male	Stage : Week 4				
		0	1	2	3	4	5
Isononane	n	0	0	0	0	0	0
0 mg/kg							
Isononane	n	0	0	0	0	2	3
60 mg/kg							
Isononane	n	0	0	1	0	0	0
250 mg/kg							
Isononane	n	0	0	0	1	1	3
1000 mg/kg							

Specific gravity) 0;1.001 ~ 1.010, 1;1.011 ~ 1.020, 2;1.021 ~ 1.030, 3;1.031 ~ 1.040, 4;1.041 ~ 1.050, 5;1.050 <
Not significantly different from Isononane 0 mg/kg

Table 10 - 6

Study No.: SR19180

Test article	Dose	Urinary findings Sex : Male				Stage : Week 4				Species : Rat							
		-	±	+	2+	3+	0	-	5		+	0	2+	0	3+	0	
Isononane	n	5	0	0	0	0	0	0	5	0	0	0	0	0	0	0	
0 mg/kg																	
Isononane	n	5	0	0	0	0	0	0	5	0	0	0	0	0	0	0	
60 mg/kg																	
Isononane	n	5	0	0	0	0	0	0	5	0	0	0	0	0	0	0	
250 mg/kg																	
Isononane	n	5	0	0	0	0	0	0	5	0	0	0	0	0	0	0	
1000 mg/kg																	
<hr/>																	
Squamous																	
<hr/>																	
Test article	Dose													Round			
Isononane	n	5	0	0	0	2+	0	0	3+	-	5	0	0	+	0	2+	0
0 mg/kg																	
Isononane	n	3	2	0	0	0	0	0	5	0	0	0	0	0	0	0	0
60 mg/kg																	
Isononane	n	3	2	0	0	0	0	0	5	0	0	0	0	0	0	0	0
250 mg/kg																	
Isononane	n	2	3	0	0	0	0	0	5	0	0	0	0	0	0	0	0
1000 mg/kg																	

Not significantly different from Isononane 0 mg/kg

Table 10 - 7

Study No. : SR19180

Test article	Dose	Urinary findings						Stage : Week 4						Species : Rat				
		Sex : Male			Small round			Cast										
-	5	±	0	+	0	2+	0	3+	-	5	±	0	+	0	2+	0	3+	0
Isononane	n	5	0	0	0	0	0	0	-	5	0	0	0	0	0	0	0	
0 mg/kg																		
Isononane	n	5	0	0	0	0	0	0	-	5	0	0	0	0	0	0	0	
60 mg/kg																		
Isononane	n	5	0	0	0	0	0	0	-	5	0	0	0	0	0	0	0	
250 mg/kg																		
Isononane	n	5	0	0	0	0	0	0	-	5	0	0	0	0	0	0	0	
1000 mg/kg																		

Not significantly different from Isononane 0 mg/kg

Table 10 - 8

Study No. : SR19180

		Urinary findings Sex : Female (satellite)						Stage : Week 4		
								pH		
Test article	Dose	5.0	6.0	6.5	7.0	7.5	8.0	2	8.5	3
Isononane	n	0	0	0	2	1	2	0		
0 mg/kg										
Isononane	1000 mg/kg	n	0	0	0	2	1	2	0	
<hr/>										
W2 \$										
<hr/>										
Glucose										
<hr/>										
Test article	Dose	-	+	2+	3+	-	±	+	2+	3+
Isononane	n	5	0	0	0	5	0	0	0	0
0 mg/kg										
Isononane	1000 mg/kg	n	5	0	0	0	5	0	0	0
<hr/>										
Ketone body										
<hr/>										
Test article	Dose	0.1	1	2	4	8	-	5	+	3+
Isononane	n	5	0	0	0	0	0	0	0	0
0 mg/kg										
Isononane	1000 mg/kg	n	5	0	0	0	5	0	0	0
<hr/>										
Urobilinogen										
<hr/>										
Test article	Dose	EU/dL								
Isononane	n	5	0	0	0	0	0	0	0	0
0 mg/kg										
Isononane	1000 mg/kg	n	5	0	0	0	5	0	0	0
<hr/>										

Significantly different from Isononane 0 mg/kg: \$ P<0.05
 W2 : Wilcoxon rank sum test (two-side)

Test article	Dose	Urinary findings Sex : Female (satellite)				Stage : Week 4				Species : Rat
		Occult blood				Color				
Isononane	n	-	5	±	0	+	2+	0	3+	A
0 mg/kg										B
Isononane	n	5	0	0	0	0	0	5	0	C
1000 mg/kg										D
<hr/>										
Test article	Dose	Protein				Color				Species : Rat
		-	0	±	1	+	4	2+	3+	
Isononane	n									
0 mg/kg										
Isononane	n	1	1	1	3	0	0	0	0	
1000 mg/kg										

Color) A : Pale yellow or yellow, B : Orange yellow, C : Red brown, D : Creamy white

Not significantly different from Isononane 0 mg/kg

Stage : Week 4

Sex : Female (satellite)

Urinary findings

Test article	Dose	Urine volume mL/21hr	Species : Rat
Isononane	0 mg/kg	n Mean S.D.	5 6.50 2.62
Isononane	1000 mg/kg	n Mean S.D.	5 13.20 5.23 T2 *

Significantly different from Isononane 0 mg/kg. * P<0.05
 T2 : Student t-test (two-side)

Test article Dose	Uriney findings Sex : Female (satellite)					Stage : Week 4 Species : Rat
	0	1	2	3	4	
Isononane 0 mg/kg	n	0	0	0	0	5
Isononane 1000 mg/kg	n	0	0	0	2	3

Specific gravity) 0,1.001 ~ 1.010,1,1.011 ~ 1.020,2,1.021 ~ 1.030,3,1.031 ~ 1.040,4,1.041 ~ 1.050,5,1.050 <
Not significantly different from Isononane 0 mg/kg

Urinary findings
Sex : Female (satellite)

		Stage : Week 4						Species : Rat								
		RBC			WBC											
Test article	Dose	-	±	+	2+	3+	-	5	±	0	+	0	2+	0	3+	0
Isononane	n	5	0	0	0	0	0	5	0	0	0	0	0	0	0	
1000 mg/kg																

Squamous

		Squamous						Round								
Test article	Dose	-	±	+	2+	3+	-	5	±	0	+	0	2+	0	3+	0
Isononane	n	4	1	0	0	0	0	5	0	0	+	0	0	0	0	0
1000 mg/kg																

Small round

		Small round						Cast								
Test article	Dose	-	±	+	2+	3+	-	5	±	0	+	0	2+	0	3+	0
Isononane	n	5	0	0	0	0	0	5	0	0	+	0	0	0	0	0
1000 mg/kg																

Not significantly different from Isononane 0 mg/kg

Table 10 - 13

Study No. : SR19180

		Urinary findings Sex : Male						Stage : Recovery Week 2						Species : Rat	
		pH													
Test article	Dose	5.0	6.0	6.5	7.0	7.5	8.0	8.5	0	0	0	0	0	0	0
Isononane	0 mg/kg	n	0	0	0	0	0	0	0	0	0	0	0	0	0
Isononane	1000 mg/kg	n	0	0	0	0	0	0	0	0	0	0	0	0	0
<hr/>															
Glucose															
Test article	Dose	-	+	2+	3+	-	±	+	+	0	0	0	2+	0	3+
Isononane	0 mg/kg	n	5	0	0	0	5	0	0	0	0	0	0	0	0
Isononane	1000 mg/kg	n	5	0	0	0	5	0	0	0	0	0	0	0	0
<hr/>															
Ketone body															
Test article	Dose	-	+	2+	3+	-	±	+	+	0	0	0	2+	0	3+
Isononane	0 mg/kg	n	5	0	0	0	5	0	0	0	0	0	0	0	0
Isononane	1000 mg/kg	n	5	0	0	0	5	0	0	0	0	0	0	0	0
<hr/>															
Urobilinogen															
Test article	Dose	0.1	1	2	4	8	-	+	+	5	0	0	2+	0	3+
Isononane	0 mg/kg	n	5	0	0	0	0	0	0	5	0	0	0	0	0
Isononane	1000 mg/kg	n	5	0	0	0	0	0	0	5	0	0	0	0	0

Not significantly different from Isononane 0 mg/kg

	Sex : Male	Urinary findings				Stage : Recovery Week 2				Species : Rat	
		Occult blood				Color					
Test article		-	+	2+	3+	0	A	5	B	C	D
Dose	Isononane 0 mg/kg	n	4	±	1	0	2+	0	3+	0	0
Isononane 1000 mg/kg	n	5	0	0	0	0	0	5	0	0	0
<hr/>											
Protein											
Test article		-	+	+	2+	3+	3+	0	4+		
Dose	Isononane 0 mg/kg	n	0	1	1	3	3	0	0		
Isononane 1000 mg/kg	n	0	1	2	2	0	0	0			

Color) A : Pale yellow or yellow, B : Orange yellow, C : Red brown, D : Creamy white

Not significantly different from Isononane 0 mg/kg

Stage : Recovery Week 2

Test article Dose	Urinary findings Sex : Male		Urine volume mL/21hr	Species : Rat
	n	Mean S.D.		
Isononane 0 mg/kg	5	13.80 6.93		
Isononane 1000 mg/kg	5	10.60 2.92		

Not significantly different from Isononane 0 mg/kg

		Stage : Recovery Week 2					Species : Rat
		Urinary findings Sex : Male		Specific gravity			
Test article	Dose	0	1	2	3	4	5
Isononane	0 mg/kg	n	0	0	1	0	4
Isononane	1000 mg/kg	n	0	0	0	1	4

Specific gravity) 0,1.001~1.010,1,1.011~1.020,2,1.021~1.030,3,1.031~1.040,4,1.041~1.050,5,1.050<
Not significantly different from Isononane 0 mg/kg

Table 10 - 17

Study No. : SR19180

		Urinary findings Sex : Male						Stage : Recovery Week 2												
		RBC			WBC			Species : Rat												
Test article	Dose	-	5	±	0	+	0	2+	0	3+	-	5	±	0	+	0	2+	0	3+	0
Isononane	0 mg/kg	n	5	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	
Isononane	1000 mg/kg	n	5	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	
<hr/>																				
<hr/>																				
Squamous																				
<hr/>																				
Test article	Dose	-	5	±	0	+	0	2+	0	3+	-	5	±	0	+	0	2+	0	3+	0
Isononane	0 mg/kg	n	5	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	
Isononane	1000 mg/kg	n	5	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	
<hr/>																				
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Round																				
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Test article	Dose	-	5	±	0	+	0	2+	0	3+	-	5	±	0	+	0	2+	0	3+	0
Isononane	0 mg/kg	n	5	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	
Isononane	1000 mg/kg	n	5	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	
<hr/>																				
<hr/>																				
Cast																				
<hr/>																				
Test article	Dose	-	5	±	0	+	0	2+	0	3+	-	5	±	0	+	0	2+	0	3+	0
Isononane	0 mg/kg	n	5	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	
Isononane	1000 mg/kg	n	5	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	

Not significantly different from Isononane 0 mg/kg

Urinary findings
Sex : Female (satellite)

		Stage : Recovery Week 2						Species : Rat	
		pH							
Test article	Dose	5.0	6.0	6.5	7.0	7.5	8.0	1	8.5
Isononane	n	0	0	0	0	0	0	0	4
0 mg/kg									
Isononane	n	0	0	0	0	0	0	0	5
1000 mg/kg									
<hr/>									
Glucose									
								Ketone body	
Test article	Dose	-	+	2+	3+	-	±	+	2+
Isononane	n	5	0	0	0	0	5	0	0
0 mg/kg									
Isononane	n	5	0	0	0	0	5	0	0
1000 mg/kg									
<hr/>									
Urobilinogen									
								Bilirubin	
Test article	Dose	0.1	1	2	4	8	-	5	+
Isononane	n	5	0	0	0	0	0	0	0
0 mg/kg									
Isononane	n	5	0	0	0	0	5	0	0
1000 mg/kg									

Not significantly different from Isononane 0 mg/kg

Urinary findings
Sex : Female (satellite)

Test article	Dose	Stage : Recovery Week 2						Species : Rat
		Occult blood			Color			
Isononane	n	-	5	±	0	+	2+	0
0 mg/kg					0	0	3+	0
Isononane	n	5	0	0	0	0	A	5
1000 mg/kg							B	0

Protein

Test article	Dose	Stage : Recovery Week 2						Species : Rat
		Color			Protein			
Isononane	n	-	0	±	2	+	2+	4+
0 mg/kg					3	0	3+	0
Isononane	n	0	1	4	0	0	0	0
1000 mg/kg								

Color) A : Pale yellow or yellow, B : Orange yellow, C : Red brown, D : Creamy white

Not significantly different from Isononane 0 mg/kg

Urinary findings
Sex : Female (satellite)

		Stage : Recovery Week 2			Species : Rat
Test article	Dose	Urine volume	n	Mean	
Isononane	0 mg/kg		4	9.38	
				6.76	

Isononane	1000 mg/kg	n	5	Mean	13.20
				S.D.	3.21

Not significantly different from Isononane 0 mg/kg

Test article Dose	Uriney findings Sex : Female (satellite)					Stage : Recovery Week 2 Species : Rat
	0	1	2	3	4	
Isononane 0 mg/kg	n	0	0	0	4	5
Isononane 1000 mg/kg	n	0	0	0	1	3

Specific gravity) 0,1.001 ~ 1.010,1,1.011 ~ 1.020,2,1.021 ~ 1.030,3,1.031 ~ 1.040,4,1.041 ~ 1.050,5,1.050 <
Not significantly different from Isononane 0 mg/kg

Urinary findings
Sex : Female (satellite)

		Stage : Recovery Week 2						Species : Rat							
		RBC			WBC										
Test article	Dose	-	5	±	0	+	2+	3+	-	5	±	0	+	2+	3+
Isononane	0 mg/kg	n	5	0	0	0	0	0	5	0	0	0	0	0	0
Isononane	1000 mg/kg	n	5	0	0	0	0	0	5	0	0	0	0	0	0

Squamous

		Squamous						Round							
		RBC			WBC										
Test article	Dose	-	5	±	0	+	2+	3+	-	5	±	0	+	2+	3+
Isononane	0 mg/kg	n	5	0	0	0	0	0	5	0	0	0	0	0	0
Isononane	1000 mg/kg	n	5	0	0	0	0	0	5	0	0	0	0	0	0

Small round

		Small round						Cast							
		RBC			WBC										
Test article	Dose	-	5	±	0	+	2+	3+	-	5	±	0	+	2+	3+
Isononane	0 mg/kg	n	5	0	0	0	0	0	5	0	0	0	0	0	0
Isononane	1000 mg/kg	n	5	0	0	0	0	0	5	0	0	0	0	0	0

Not significantly different from Isononane 0 mg/kg

Table 11 - 1

Study No. : SR19180

Stage : Day 29

Hematological findings		Species : Rat									
	Sex : Male	RBC	HGB	HCT	MCV	MCH	MCHC	Reticulocyte	Platelet	WBC	Neutrophil
Test article		10 ⁴ /µL	g/dL	%	fL	pg	g/dL	%	10 ⁴ /µL	10 ² /µL	10 ² /µL
Dose											
Isononane	n	5	5	5	5	5	5	5	5	5	5
0 mg/kg	Mean	873.6	15.68	43.98	50.36	17.94	35.62	3.272	97.50	90.24	16.46
	S.D.	22.1	0.63	1.57	2.05	0.58	0.72	0.264	15.02	22.78	2.84
Isononane	n	5	5	5	5	5	5	5	5	5	5
60 mg/kg	Mean	873.4	15.70	43.94	50.32	17.98	35.72	3.106	93.92	75.74	11.52
	S.D.	37.5	0.72	1.76	1.23	0.41	0.24	0.122	8.93	7.64	2.11
Isononane	n	5	5	5	5	5	5	5	5	5	5
250 mg/kg	Mean	854.0	15.34	43.60	51.08	17.98	35.18	2.938	108.86	94.38	19.80
	S.D.	31.0	0.67	1.85	2.45	0.86	0.41	0.372	7.60	15.49	5.03
Isononane	n	5	5	5	5	5	5	5	5	5	5
1000 mg/kg	Mean	843.6	15.36	43.50	51.56	18.18	35.32	3.834	120.74	87.42	17.20
	S.D.	37.2	0.89	2.51	1.49	0.39	0.62	1.541	9.27	9.63	6.52
									DT **		
Species : Rat											
		Lymphocyte	Monocyte	Eosinophil	Basophil	PT	APTT				
Test article		10 ⁷ /µL	10 ² /µL	10 ² /µL	10 ² /µL	sec	sec				
Dose											
Isononane	n	5	5	5	5	5	5	5	5	5	5
0 mg/kg	Mean	68.14	4.60	1.02	0.02	16.34	19.40				
	S.D.	19.59	1.03	0.36	0.04	0.64	1.31				
Isononane	n	5	5	5	5	5	5	5	5	5	5
60 mg/kg	Mean	59.40	3.60	1.22	0.00	17.68	20.34				
	S.D.	7.02	0.48	0.29	0.00	2.28	1.41				
Isononane	n	5	5	5	5	5	5	5	5	5	5
250 mg/kg	Mean	68.74	4.70	1.10	0.04	17.26	20.88				
	S.D.	12.35	1.29	0.40	0.05	0.65	1.43				
Isononane	n	5	5	5	5	5	5	5	5	5	5
1000 mg/kg	Mean	65.56	3.84	0.82	0.00	19.08	22.40				
	S.D.	15.10	0.86	0.24	0.00	1.54	2.93				
						ST *					

Significantly different from Isononane 0 mg/kg: * P<0.05, ** P<0.01
 DT: Dunnett test (two-side), ST : Steel test (two-side)

Table 11 - 2

Study No. : SR19180

Hematological findings

		Sex : Female										Sex : Rat									
		RBC	HGB	HCT	MCV	MCH	MCHC	Reticulocyte	Platelet	WBC	Neutrophil										
		10 ⁹ /µL	g/dL	%	fL	pg	g/dL	%	10 ⁹ /µL	10 ⁹ /µL	10 ⁹ /µL										
Test article	Dose																				
Isononane	0 mg/kg	n Mean S.D.	5 748.4 49.9	5 15.10 0.61	5 42.26 2.10	5 56.58 2.58	5 20.22 0.82	5 35.74 0.45	5 4.174 0.618	5 106.68 10.47	5 111.58 18.54	5 5 47.26 7.13									
Isononane	60 mg/kg	n Mean S.D.	5 749.8 22.6	5 14.82 0.65	5 41.16 1.64	5 54.90 1.83	5 19.74 0.38	5 36.02 0.93	5 4.076 0.606	5 105.76 8.51	5 95.60 16.70	5 5 44.00 9.63									
Isononane	250 mg/kg	n Mean S.D.	5 769.2 50.1	5 15.64 0.88	5 43.64 2.83	5 56.84 3.86	5 20.36 1.28	5 35.86 0.68	5 4.296 0.561	5 99.40 12.98	5 87.22 18.65	5 5 39.80 6.40									
Isononane	1000 mg/kg	n Mean S.D.	5 763.0 34.4	5 15.30 0.37	5 42.68 1.45	5 55.98 1.97	5 20.06 0.51	5 35.86 0.63	5 4.344 0.629	5 105.78 10.45	5 87.80 24.73	5 5 43.04 12.21									
Stage : Day 14 after delivery																					
Test article																					
Dose																					
Isononane	0 mg/kg	n Mean S.D.	5 59.00 11.57	5 4.42 2.97	5 0.84 0.52	5 0.06 0.05	5 0.02 0.04	5 16.70 0.62	5 15.98 0.47	5 16.70 0.62	5 13.52 1.18										
Isononane	60 mg/kg	n Mean S.D.	5 44.82 8.29	5 5.66 1.53	5 1.10 0.41	5 0.02 0.04	5 0.04 0.05	5 15.98 0.47	5 15.98 0.47	5 15.98 0.47	5 13.74 1.18										
Isononane	250 mg/kg	n Mean S.D.	5 43.08 14.31	5 3.70 2.19	5 0.60 0.28	5 0.04 0.05	5 16.80 0.51	5 16.80 0.51	5 16.80 0.51	5 16.80 0.51	5 13.08 0.72										
Isononane	1000 mg/kg	n Mean S.D.	5 41.14 18.77	5 2.98 1.40	5 0.60 0.38	5 0.04 0.05	5 16.12 0.77	5 16.12 0.77	5 16.12 0.77	5 16.12 0.77	5 12.54 0.61										

Not significantly different from Isononane 0 mg/kg

Table 11 - 3

Study No. : SR19180

Stage : Day 29

Test article Dose	Hematological findings Sex : Female (satellite)				Stage : Day 29					
	RBC	HGB	HCT	MCV	MCH	MCHC	Reticulocyte	Platelet		
	10 ⁴ /µL	g/dL	%	fL	pg	g/dL	%	10 ⁴ /µL	WBC	Species : Rat
Isononane 0 mg/kg	n Mean S.D.	5 798.0 16.4	5 15.10 0.25	5 41.58 1.09	5 52.10 1.12	5 18.92 0.29	5 36.34 0.37	5 2.796 0.465	5 104.04 14.09	5 41.88 4.41
Isononane 1000 mg/kg	n Mean S.D.	4 790.5 30.3	4 14.50 0.70	4 40.68 1.99	4 51.48 1.72	4 18.33 0.62	4 35.63 0.62	4 2.850 0.396	4 106.05 6.75	4 41.03 15.43

Test article Dose	Lymphocyte				Monocyte				Eosinophil			Basophil		PT	APTT
	10 ² /µL	sec	sec	sec	sec	sec									
Isononane 0 mg/kg	n Mean S.D.	5 31.40 4.50	5 1.32 0.40	5 0.80 0.25	5 0.00 0.00	5 0.00 0.00	5 0.00 0.00	5 0.00 0.00	5 16.36 0.62	5 15.06 1.25	5 15.06 1.25				
Isononane 1000 mg/kg	n Mean S.D.	4 30.65 12.23	4 1.63 1.54	4 0.63 0.38	4 0.00 0.00	4 0.00 0.00	4 0.00 0.00	4 15.48 0.38	4 17.18 2.87	4 17.18 2.87					

Significantly different from Isononane 0 mg/kg: * P<0.05
T2 : Student t-test (two-side)

Hematological findings

		Sex : Male						Stage : Recovery Day 15						
		RBC	HGB	HCT	MCV	MCH	MCHC	Reticulocyte	Platelet	Species : Rat	WBC	Neutrophil		
Test article	Dose	10 ⁴ /µL	g/dL	%	fL	pg	g/dL	%	10 ⁴ /µL	10 ³ /µL	10 ³ /µL			
Isononane	0 mg/kg	n Mean S.D.	5 912.0 37.9	5 16.60 0.81	5 46.04 2.39	5 50.48 0.98	5 18.16 0.34	5 36.04 0.21	5 2.482 0.553	5 105.36 12.13	5 79.20 19.13	5 12.60 3.45		
Isononane	1000 mg/kg	n Mean S.D.	5 893.6 52.2	5 15.56 0.73	5 43.24 1.87	5 48.48 2.63	5 17.42 0.89	5 36.00 0.23	5 2.706 0.241	5 120.90 20.20	5 101.98 24.91	5 16.90 6.02		
		Lymphocyte	Monocyte	Eosinophil	Basophil	PT	APTT							
Test article	Dose	10 ² /µL	10 ² /µL	10 ² /µL	10 ² /µL	sec	sec							
Isononane	0 mg/kg	n Mean S.D.	5 60.74 13.44	5 4.56 2.37	5 1.28 0.26	5 0.02 0.04	5 17.78 0.98	5 20.78 2.11						
Isononane	1000 mg/kg	n Mean S.D.	5 79.08 21.40	5 4.72 1.33	5 1.22 0.65	5 0.06 0.05	5 17.72 2.22	5 21.18 1.11						

Not significantly different from Isononane 0 mg/kg

Table 11 - 5

Study No. : SR19180

Test article Dose	Hematological findings Sex : Female (satellite)						Stage : Recovery Day 15					
	RBC	HGB	HCT	MCV	MCH	MCHC	Reticulocyte	Platelet	Species : Rat	WBC	Neutrophil	10 ³ /µL
Isononane 0 mg/kg	10 ⁴ /µL	g/dL	%	fL	pg	g/dL	%	10 ⁴ /µL	10 ³ /µL	10 ³ /µL	10 ³ /µL	
Isononane 1000 mg/kg	n Mean S.D.	5 835.8 38.7	5 15.62 0.33	5 43.08 1.24	5 51.62 1.90	5 0.68	5 0.52	5 2.742 0.438	5 110.10 7.83	5 53.52 9.02	5 9.96 2.13	
<hr/>												
Test article Dose	Lymphocyte 10 ² /µL						APTT					
	Monocyte	Eosinophil	Basophil	PT	sec	sec	Monocyte	Eosinophil	Basophil	PT	APTT	sec
Isononane 0 mg/kg	n Mean S.D.	5 39.92 8.64	5 2.54 0.27	10 ² /µL 0.38	10 ² /µL 0.00	10 ² /µL 0.29	10^{2}/µL 0.29	10^{2}/µL 0.29	10^{2}/µL 0.29	10^{2}/µL 0.29	10^{2}/µL 0.29	10^{2}/µL 0.29
Isononane 1000 mg/kg	n Mean S.D. T2 *	5 55.70 9.49 T2 *	5 2.60 1.15	5 1.48 0.54	5 0.00 0.00	5 0.00 0.00	5 16.14 0.73	5 15.62 0.63	5 14.34 1.49	5 14.34 1.49	5 14.34 1.49	5 14.34 1.49

Significantly different from Isononane 0 mg/kg: * P<0.05
 T2 : Student t-test (two-side)

Table 12 - 1

Study No. : SR19180

Stage : Day 29

		Biochemical findings						Species : Rat							
		Sex : Male			Sex : Female			Stage : Day 29			T-Cho			TG	
Test article	Dose	AST	ALT	ALP	γ-GTP	T-Bil	TBA	Glucose						TP	
		IU/L	IU/L	IU/L	IU/L	μmol/L	μmol/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	g/dL		
Isononane	0 mg/kg	n Mean S.D.	5 70.2 14.6	5 32.4 10.2	5 530.6 32.3	5 0.54 0.18	5 0.054 0.005	11.60 7.00	5 151.2 6.7	5 50.2 15.7	5 34.6 17.7	5 22.6 6.1	5 22.6 6.1	5 5.36 0.21	
	60 mg/kg	n Mean S.D.	5 68.2 10.8	5 30.2 4.7	5 365.0 61.7	5 0.56 0.17	5 0.054 0.015	20.92 10.49	5 148.6 5.3	5 56.8 6.8	5 50.2 15.7	5 22.6 6.1	5 5.32 0.15		
Isononane	250 mg/kg	n Mean S.D.	5 65.4 10.1	5 30.6 5.9	5 317.8 83.0	5 0.66 0.11	5 0.054 0.011	13.62 7.64	5 136.0 12.6	5 66.6 12.0	5 56.6 12.0	5 27.2 13.2	5 5.56 0.23		
	1000 mg/kg	n Mean S.D.	5 57.0 9.1	5 36.4 6.9	5 315.0 65.9	5 1.10 0.38	5 0.058 0.019	15.38 15.34	5 130.8 16.2	5 71.0 14.2	5 23.8 DT*	5 19.2	5 5.88 0.26		
		UN						Ka	Ki	Ca	IP	A/G	Albumin		
Test article	Dose		mg/dL	mg/dL	mEq/L	mEq/L	mEq/L	mg/dL	mg/dL	mg/dL	mg/dL	g/dL	%		
	Isononane	n Mean S.D.	5 11.68 1.62	5 0.290 0.044	5 142.8 0.4	5 4.468 0.111	5 105.2 1.6	5 9.28 0.37	5 6.10 0.42	5 0.918 0.056	5 2.566 0.087	5 47.86 1.45			
Isononane	60 mg/kg	n Mean S.D.	5 12.88 1.55	5 0.302 0.051	5 143.0 0.7	5 4.630 0.333	5 104.4 1.1	5 9.30 0.20	5 6.38 0.68	5 0.924 0.078	5 2.552 0.180	5 47.90 2.16			
	250 mg/kg	n Mean S.D.	5 12.40 1.15	5 0.308 0.038	5 143.2 0.4	5 4.618 0.261	5 104.2 0.8	5 9.58 0.32	5 6.44 0.29	5 0.860 0.068	5 2.570 0.144	5 46.20 2.06			
Isononane	1000 mg/kg	n Mean S.D.	5 14.00 1.97	5 0.282 0.050	5 143.6 1.1	5 4.816 0.445	5 102.4 1.1	5 9.72 0.18	5 6.52 0.44	5 0.848 0.057	5 2.694 0.174	5 45.80 1.71			

Significantly different from Isononane 0 mg/kg: * P<0.05, ** P<0.01

DT: Dunnett test (two-side)

Table 12 - 2

Study No. : SR19180

Stage : Day 29

Test article Dose	Sex : Male	Biochemical findings			Species : Rat
		α 1-G %	α 2-G %	β -G %	
Isononane 0 mg/kg	n Mean S.D.	5 23.46 0.88	5 8.56 0.86	5 16.00 0.40	5 4.12 0.54
Isononane 60 mg/kg	n Mean S.D.	5 22.08 0.55	5 9.10 1.19	5 15.92 0.73	5 5.00 1.39
Isononane 250 mg/kg	n Mean S.D.	5 22.94 3.26	5 9.58 1.06	5 16.86 1.36	5 4.42 1.28
Isononane 1000 mg/kg	n Mean S.D.	5 23.22 2.05	5 9.88 1.76	5 17.42 1.68	5 3.68 0.60

Not significantly different from Isononane 0 mg/kg

Table 12 - 3

Study No. : SR19180

Stage : Day 14 after delivery

Test article Dose	Biochemical findings Sex : Female						Species : Rat					
	AST IU/L	ALT IU/L	ALP IU/L	γ-GTP IU/L	T-Bil μmol/L	TBA mg/dL	Glucose mg/dL	T-Cho mg/dL	TG mg/dL	TP g/dL	TP	
Isononane 0 mg/kg	n Mean S.D.	5 116.6 33.2	5 68.2 11.5	5 335.4 102.9	5 0.74 0.23	5 0.046 0.011	5 20.78 12.40	5 136.0 15.7	5 102.4 12.7	5 87.0 36.1	5 5.90 0.21	
Isononane 60 mg/kg	n Mean S.D.	5 106.0 8.5	5 62.2 8.5	5 511.6 212.1	5 0.82 0.26	5 0.046 0.009	5 22.50 12.47	5 132.2 6.8	5 93.0 18.0	5 81.8 9.9	5 5.90 0.32	
Isononane 250 mg/kg	n Mean S.D.	5 111.4 21.8	5 62.2 7.1	5 349.8 62.0	5 0.94 0.57	5 0.044 0.026	5 29.52 32.61	5 127.8 11.3	5 106.6 28.6	5 150.2 72.9	5 6.24 0.38	
Isononane 1000 mg/kg	n Mean S.D.	5 103.0 32.3	5 64.2 18.3	5 397.4 230.0	5 1.10 0.23	5 0.040 0.007	5 30.92 14.18	5 118.8 6.3	5 124.2 20.5	5 80.8 28.3	5 5.90 0.19	
Test article Dose	Biochemical findings Sex : Male						Species : Rat					
	UN mg/dL	Crea mg/dL	Na mEq/L	K mEq/L	Cl mEq/L	Ca mg/dL	IP mg/dL	A/G mg/dL	Albumin g/dL	Albumin %		
Isononane 0 mg/kg	n Mean S.D.	5 25.40 6.63	5 0.444 0.036	5 137.0 2.5	5 4.394 0.442	5 98.6 0.9	5 9.54 0.32	5 8.90 1.29	5 0.870 0.016	5 2.744 0.099	5 46.50 0.51	
Isononane 60 mg/kg	n Mean S.D.	5 18.48 2.32	5 0.394 0.018	5 138.6 1.5	5 3.934 0.284	5 98.0 1.7	5 9.58 0.22	5 8.16 0.98	5 0.920 0.070	5 2.822 0.169	5 47.86 2.01	
Isononane 250 mg/kg	n Mean S.D.	5 23.96 4.82	5 0.424 0.096	5 135.8 2.6	5 4.562 0.848	5 97.2 1.9	5 10.08 0.61	5 8.66 1.34	5 0.900 0.044	5 2.954 0.239	5 47.32 1.24	
Isononane 1000 mg/kg	n Mean S.D.	5 21.50 5.88	5 0.380 0.065	5 137.8 2.4	5 4.624 0.229	5 98.4 2.7	5 10.06 0.55	5 8.64 2.48	5 0.912 0.125	5 2.806 0.225	5 47.52 3.51	

Not significantly different from Isononane 0 mg/kg

Table 12 - 4

Study No. : SR19180

Biochemical findings
Sex : Female

Test article Dose		Stage : Day 14 after delivery				Species : Rat
		α 1-G %	α 2-G %	β -G %	γ -G %	
Isononane 0 mg/kg	n	5	5	5	5	
	Mean S.D.	23.06 2.00	10.18 1.79	16.14 0.47	4.12 1.67	
Isononane 60 mg/kg	n	5	5	5	5	
	Mean S.D.	20.66 1.74	10.46 1.25	16.62 0.62	4.40 0.96	
Isononane 250 mg/kg	n	5	5	5	5	
	Mean S.D.	22.88 1.43	9.76 1.09	16.36 0.98	3.68 0.73	
Isononane 1000 mg/kg	n	5	5	5	5	
	Mean S.D.	20.52 2.86	10.14 1.32	17.56 0.66	4.26 1.78	

Significantly different from Isononane 0 mg/kg: * P<0.05
DT: Dunnett test (two-side)

Stage : Day 29

Biochemical findings Sex : Female (satellite)										Stage : Day 29					
		AST		ALT		ALP		γ-GTP		T-Bil		Glucose		Species : Rat	
Test article	Dose	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	μmol/L	μmol/L	mg/dL	mg/dL	mg/dL	mg/dL	TG	TP
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	
0 mg/kg	Mean	58.8	25.2	179.0	0.92	0.052	8.18	149.4	10.35	118.0	103.0	19.8	4	4	
Isononane	S.D.	8.6	3.8	26.0	0.11	0.016	2.00	20.7	12.32	18.5	16.9	7.4	6.65	6.65	
1000 mg/kg	Mean	50.8	21.0	113.5	0.63	0.043	10.35	118.0	T2 *	T2 *	T2 *	T2 **	0.37	0.37	
Isononane	S.D.	4.6	3.2	29.6	0.22	0.005							T2 *	T2 *	
<hr/>															
Test article		UN		Crea		Na		K		Cl		Ca		Species : Rat	
Dose		mg/dL	mg/dL	mg/dL	mg/dL	mEq/L	mEq/L	mEq/L	mEq/L	mg/dL	mg/dL	mg/dL	mg/dL	Albumin	Albumin
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5
0 mg/kg	Mean	16.20	0.402	141.0	4.158	105.6	9.42	3.84	0.24	0.48	1.082	3.112	52.00	52.00	
Isononane	S.D.	2.43	0.060	1.4	0.097	1.5	0.24				0.062	0.234	1.40	1.40	
1000 mg/kg	Mean	13.33	0.298	141.3	4.245	104.5	9.90	4.95	0.37	0.70	0.033	0.184	3.325	50.00	
Isononane	S.D.	0.59	0.022	1.3	0.150	1.3	0.37						0.78	0.78	
<hr/>															
Test article		α1-G		α2-G		β-G		γ-G		Species : Rat					
Dose		%	%	%	%	%	%	%	%	A/G	IP	Al/G	Al/G	Albumin	Albumin
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5
0 mg/kg	Mean	19.06	7.76	14.94	1.42	1.42	1.03								
Isononane	S.D.	1.23	0.45												
1000 mg/kg	Mean	21.38	8.55	14.95	4	4	4	4	4	4	4	4	4	4	4
Isononane	S.D.	2.02	1.18	0.33											

Significantly different from Isononane 0 mg/kg: * P<0.05, ** P<0.01
 T2 : Student t test (two-side)

Table 12 - 6

Study No. : SR19180

Biochemical findings

Stage : Recovery Day 15																		
Sex : Male		AST		ALT		ALP		γ-GTP		T-Bil		Glucose		T-Chol		Species : Rat		
Test article	Dose	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	μmol/L	mg/dL	μmol/L	mg/dL	mg/dL	mg/dL	TG	TP	g/dL	g/dL	
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
0 mg/kg	Mean	62.8	29.2	334.6	0.58	0.052	8.68	138.2	55.0	41.6	5	5	5	5	5	5.52	5.52	
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
1000 mg/kg	Mean	69.2	32.2	269.2	0.92	0.052	7.36	141.4	72.6	30.6	30.6	30.6	30.6	30.6	30.6	5.60	5.60	
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
0 mg/kg	Mean	11.4	6.7	41.1	0.22	0.011	1.97	4.6	17.3	17.3	17.3	17.3	17.3	17.3	17.3	0.27	0.27	
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
1000 mg/kg	Mean	20.7	0.029	0.4	0.140	0.4	0.30	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.047	0.047	
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
1000 mg/kg	Mean	15.14	0.302	143.2	4.402	104.8	9.26	5.94	0.806	2.460	44.60	44.60	44.60	44.60	44.60	44.60	2.05	2.05
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
1000 mg/kg	Mean	1.51	0.058	0.8	0.124	1.8	0.23	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	1.52	1.52	
		α 1-G		α 2-G		β -G		γ -G										
Test article	Dose	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
0 mg/kg	Mean	26.60	8.76	15.96	0.23	1.07	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	4.08	
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
1000 mg/kg	Mean	26.46	9.00	16.16	0.63	1.69	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	43.58	43.58	
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
1000 mg/kg	Mean	3.14	0.89	0.89	0.63	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	

Significantly different from Isononane 0 mg/kg. * P<0.05
 T2 : Student t-test (two-side)

Table 12 - 7

Study No. : SR19180

Biochemical findings
Sex : Female (satellite)

		Stage : Recovery Day 15															
Test article	Dose	AST				ALT				γ-GTP		T-Bil		Glucose		Species : Rat	
		IU/L	IU/L	IU/L	IU/L	μmol/L	mg/dL	μmol/L	mg/dL	TBA	Glucose	T-Cho	TG	mg/dL	mg/dL	TP	g/dL
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
0 mg/kg	Mean	79.6	37.2	12.6	33.1	0.94	0.074	11.80	133.6	74.4	12.6	12.6	12.6	12.6	12.6	6.24	
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
1000 mg/kg	Mean	58.2	24.8	4.9	25.6	0.12	0.031	19.84	122.4	96.0	23.1	23.1	3.3	3.3	3.3	0.26	
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
0 mg/kg	Mean	7.9	7.9	7.9	7.9	0.21	0.015	5.54	4.4	5.54	4.4	5.54	4.4	5.54	4.4	0.39	
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
1000 mg/kg	Mean	14.70	0.336	0.032	1.0	141.0	4.346	106.2	9.52	5.30	1.058	3.210	51.40	51.40	51.40	1.45	
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
1000 mg/kg	Mean	16.48	0.324	0.045	0.5	141.4	4.498	104.8	9.82	5.52	0.978	3.176	49.46	49.46	49.46	1.24	
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
0 mg/kg	Mean	1.32	0.045	0.045	0.5	0.168	1.3	0.24	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
1000 mg/kg	Mean	2.11	0.96	1.11	1.11	0.96	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	

α1-G α2-G β-G γ-G

		α1-G				α2-G				β-G				γ-G			
Test article	Dose	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
0 mg/kg	Mean	18.38	8.32	15.12	15.12	6.78	6.78	0.72	0.72	0.72	0.72	0.85	0.85	0.85	0.85	0.85	0.85
Isononane	n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1000 mg/kg	Mean	22.34	8.04	14.50	14.50	5.66	5.66	1.34	1.34	1.34	1.34	1.05	1.05	1.05	1.05	1.05	1.05

Significantly different from Isononane 0 mg/kg: * P<0.05, ** P<0.01

T2 : Student t-test (two-side)

Table 13

Study No. : SR19180

Stage : Day 29

Serum T4 concentration

Sex : Male

T4

Test article Dose	Isononane 0 mg/kg	n	Mean S.D.	7 7.09	
Isononane 60 mg/kg		n	Mean S.D.	12 52.18 8.39	
Isononane 250 mg/kg		n	Mean S.D.	12 49.59 5.38	
Isononane 1000 mg/kg		n	Mean S.D.	7 46.40 5.97	

Not significantly different from Isononane 0 mg/kg

Necropsy findings		Species : Rat	
Organ	Findings	Sex : Male	
		Test article	Isononane
		Dose	0
Kidney	Large size, bilateral	P	<7/7>
Testis	Small size, unilateral	P	<7/7>
Epididymis	Small size, unilateral	P	<7/7>
Other organs & tissues			<7/7>

<> : Not remarkable/Number of animals examined
P : Non-graded change

Table 14 - 2

Study No. : SR19180

Necropsy findings		Stage : Day 14 after delivery		Species : Rat	
Sex : Female	Test article	Isononane	Isononane	Isononane	Isononane
Organ	Dose	0 mg/kg	60 mg/kg	250 mg/kg	1000 mg/kg
Findings	Number of Animals	10	12	9	11
All organs & tissues	<10/10>	<12/12>	<9/9>	<11/11>	<11/11>
<> : Not remarkable/Number of animals examined					

		Necropsy findings		Species : Rat	
		Sex : Female	Test article	Isononane	Isononane
Organ	Findings	Dose		0 mg/kg	250 mg/kg
Spleen	Small size	P	<1/1>	1	1
			0	0	<0/1>
Thymus	Small size	P	<1/1>	1	<0/1>
			0	0	1
Other organs & tissues		<1/1>		<1/1>	
<> : Not remarkable/Number of animals examined					
P : Non-graded change					

<> : Not remarkable/Number of animals examined
P : Non-graded change

Table 14 - 4

Study No. : SR19180

Necropsy findings				Species : Rat
Sex : Female		Test article		Stage : Unsuccessful mating
Organ	Findings	Dose	Isononane	Isononane
All organs & tissues	All organs & tissues	0 mg/kg	0	250 mg/kg
<>	: Not remarkable/Number of animals examined	1	1	<1/1>

Table 14 - 5

Study No. : SR19180

Necropsy findings			Species : Rat
Sex : Female		Stage : Non-pregnancy	
Organ	Findings	Test article	Isononane
	All organs & tissues	Dose	250 mg/kg
	<> : Not remarkable	Number of Animals	1
			<1/1>

↔ : Not remarkable/Number of animals examined

Table 14 - 6

Study No. : SR19180

Necropsy findings				Species : Rat
Sex : Female (satellite)		Isononane		Stage : Day 29
Organ	Test article	Dose	mg/kg	Isononane
Findings		Number of Animals	5	1000 mg/kg
All organs & tissues			<5/5>	4
<> : Not remarkable/Number of animals examined			<4/4>	

Table 14 - 7

Study No. : SR19180

Necropsy findings				Species : Rat	
Sex : Female (satellite)		Stage : Euthanasia			
Organ	Findings	Test article	Dose		
Spleen	Small size		Isononane 1000 mg/kg 1	<0/1> 1	
Thymus	Small size			<0/1> 1	
Other organs & tissues		<1/1>			
↳ : Not remarkable/Number of animals examined P : Non-graded change					

Table 14 - 8

Study No. : SR19180

Necropsy findings		Species : Rat	
Sex : Male	Test article	Isononane	Stage : Recovery Day 15
	Dose	0 mg/kg	Isononane 1000 mg/kg 5
Organ	Findings	Number of Animals	
	All organs & tissues	<5/5>	<5/5>
<> : Not remarkable/Number of animals examined			

Table 14 - 9

Study No. : SR19180

Necropsy findings		Species : Rat	
Sex : Female (satellite)		Stage : Recovery Day 15	
Organ	Test article	Isononane	Isononane
Dose		0	1000
		mg/kg	mg/kg
		5	5
All organs & tissues	Number of Animals	<5/5>	<5/5>
<> : Not remarkable/Number of animals examined			

Stage : Day 29

Test article	Dose	Organ weight						Species : Rat					
		Sex : Male		Liver		Kidney		Heart		Spleen			
		Body weight	AB g	RE g	AB g	RE g/100g	AB g	RE g/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	
Isononane	0 mg/kg	n	7	7	7	7	7	7	7	7	7	7	
Isononane	60 mg/kg	Mean	505.4	13.350	2.627	3.136	0.621	1.441	0.286	729.1	145.180	7	
Isononane	60 mg/kg	S.D.	40.0	2.360	0.321	0.245	0.041	0.136	0.014	91.3	21.699		
Isononane	120 mg/kg	n	12	12	12	12	12	12	12	12	12	12	
Isononane	120 mg/kg	Mean	498.0	13.454	2.702	3.613	0.728	1.423	0.285	818.7	163.992	7	
Isononane	120 mg/kg	S.D.	24.6	0.924	0.129	0.269	0.069	0.092	0.018	170.2	29.898		
Isononane	250 mg/kg	n	12	12	12	12	12	12	12	12	12	12	
Isononane	250 mg/kg	Mean	492.2	14.819	3.013	3.828	0.779	1.435	0.293	800.8	163.037	7	
Isononane	250 mg/kg	S.D.	28.5	1.370	0.245	0.674	0.145	0.100	0.025	63.4	14.205		
Isononane	400 mg/kg	n	7	7	7	7	7	7	7	7	7	7	
Isononane	400 mg/kg	Mean	472.6	17.506	3.713	4.244	0.904	1.374	0.293	864.4	185.554	7	
Isononane	400 mg/kg	S.D.	42.4	1.877	0.346	0.705	0.171	0.131	0.020	149.8	45.791		
		Thymus						Testis					
		AB mg	RE mg	AB mg	RE mg	AB mg	RE mg	AB mg	RE mg	AB mg	RE mg	AB mg	RE mg
Isononane	0 mg/kg	n	7	7	7	7	7	7	7	7	7	7	7
Isononane	0 mg/kg	Mean	375.0	75.283	64.9	12.926	12.44	2.471	25.44	5.047	3.483	0.157	0.691
Isononane	0 mg/kg	S.D.	100.6	22.952	7.3	1.976	1.06	0.263	4.62	0.893	0.919	0.247	0.058
Isononane	120 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12
Isononane	120 mg/kg	Mean	342.0	68.707	70.8	14.228	12.84	2.569	27.92	5.629	3.528	0.709	
Isononane	120 mg/kg	S.D.	41.2	7.844	15.3	3.118	3.01	0.510	3.91	0.919	0.919	0.247	
Isononane	250 mg/kg	n	12	12	12	12	12	12	12	12	12	12	12
Isononane	250 mg/kg	Mean	359.9	72.937	64.1	13.036	13.12	2.672	27.19	5.534	3.552	0.725	
Isononane	250 mg/kg	S.D.	100.3	19.523	10.3	2.055	2.02	0.421	4.91	1.001	0.309	0.092	
Isononane	500 mg/kg	n	7	7	7	7	7	7	7	7	7	7	7
Isononane	500 mg/kg	Mean	336.6	72.134	71.9	15.294	13.26	2.803	25.16	5.361	3.404	0.726	
Isononane	500 mg/kg	S.D.	74.1	18.959	13.7	3.239	1.87	0.267	5.32	1.268	0.245	0.096	

AB : Absolute weight, RE : Relative weight by body weight
Significantly different from Isononane 0 mg/kg: * P<0.05, ** P<0.01
DT : Dunnett test (two-side), ST : Steel test (two-side)

Stage : Day 29

Organ weight
Sex : Male

Test article Dose	Epididymis			Prostate			Seminal vesicle			Brain			Species : Rat
	AB g	RE g/100g	AB mg	RE mg/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	
Isononane 0 mg/kg	n Mean S.D.	7 1.343 0.122	7 0.266 0.038	7 710.6 96.3	7 140.959 19.421	7 2.337 0.425	7 0.470 0.110	7 0.470 0.110	7 2.244 0.067	7 0.244 0.067	7 0.446 0.042	7 0.446 0.042	
Isononane 60 mg/kg	n Mean S.D.	12 1.361 0.097	12 0.273 0.023	12 794.4 173.2	12 159.744 35.937	12 2.404 0.179	12 0.484 0.046	12 0.484 0.113	12 2.186 0.113	12 0.218 0.113	12 0.438 0.026	12 0.438 0.026	
Isononane 250 mg/kg	n Mean S.D.	12 1.388 0.128	12 0.284 0.033	12 697.6 150.7	12 142.526 33.377	12 2.307 0.472	12 0.473 0.108	12 0.473 0.108	12 2.278 0.110	12 0.278 0.110	12 0.464 0.039	12 0.464 0.039	
Isononane 1000 mg/kg	n Mean S.D.	7 1.301 0.135	7 0.277 0.044	7 717.4 197.1	7 150.506 34.539	7 2.453 0.274	7 0.521 0.043	7 0.521 0.043	7 2.170 0.093	7 0.463 0.037	7 0.463 0.037	7 0.463 0.037	

AB : Absolute weight, RE : Relative weight by body weight
Not significantly different from Isononane 0 mg/kg

Organ weight
Sex : Female

Stage : Day 14 after delivery										Species : Rat		
Test article	Dose	Liver				Kidney			Heart		Spleen	
		Body weight	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB mg	RE mg/100g	AB mg	RE mg/100g
Isononane	0 mg/kg	n	10	10	10	10	10	10	10	10	10	10
Isononane	60 mg/kg	Mean S.D.	343.4 15.3	11.462 1.064	3.335 0.232	2.175 0.137	0.635 0.050	1.106 0.055	0.322 0.017	625.4 95.2	182.566 29.840	10
Isononane	250 mg/kg	n	12	12	12	12	12	12	12	12	12	12
Isononane	1000 mg/kg	Mean S.D.	334.8 13.6	11.313 0.384	3.387 0.204	2.147 0.098	0.642 0.036	1.123 0.091	0.336 0.024	628.6 68.1	188.266 23.732	10
Thymus												
Test article	Dose	Adrenal				Pituitary gland			Thyroid		Ovary	
		AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	
Isononane	0 mg/kg	n	10	10	10	10	10	10	10	10	10	10
Isononane	60 mg/kg	Mean S.D.	253.8 68.3	74.083 20.212	73.6 7.5	21.433 2.014	16.14 2.06	4.714 0.670	19.67 4.67	5.750 1.457	113.4 17.1	33.087 5.140
Isononane	250 mg/kg	n	12	12	12	12	12	12	12	12	12	12
Isononane	1000 mg/kg	Mean S.D.	220.7 65.5	65.804 18.689	82.8 15.5	24.816 4.851	16.51 2.02	4.935 0.609	21.42 4.49	6.410 1.387	104.0 16.5	31.148 5.230

AB : Absolute weight, RE : Relative weight by body weight
Significantly different from Isononane 0 mg/kg: * P<0.05, ** P<0.01
DT : Dunnett test (two-side), ST : Steel test (two-side)

Table 15 - 4
Organ weight
Sex : Female

Test article	Dose	Stage : Day 14 after delivery				Species : Rat
		Uterus		Brain		
		AB mg	RE mg/100g	AB g	RE g/100g	
Isononane	0 mg/kg	n	10	10	10	
		Mean	545.1	158.736	2.074	0.605
		S.D.	68.7	19.055	0.077	0.041
Isononane	60 mg/kg	n	12	12	12	12
		Mean	515.6	154.076	2.098	0.628
		S.D.	73.1	21.699	0.086	0.029
Isononane	250 mg/kg	n	9	9	9	9
		Mean	542.8	163.292	2.164	0.649
		S.D.	66.7	26.770	0.091	0.042
Isononane	1000 mg/kg	n	11	11	11	11
		Mean	452.7	143.642	2.066	0.655
		S.D.	111.5	40.489	0.101	0.046
		DT	*		DT	*

AB : Absolute weight, RE : Relative weight by body weight
 Significantly different from Isononane 0 mg/kg: * P<0.05
 DT : Dunnett test (two-side)

Stage : Day 29

Organ weight Sex : Female (satellite)										Species : Rat							
Test article	Dose	Body weight				Liver				Kidney				Heart			
		g	5	g	5	g/100g	5	g	5	g/100g	5	g	5	g/100g	5	mg	mg/100g
Isononane	0 mg/kg	n	287.0	7.284	2.534	1.854	0.023	0.094	0.094	0.027	0.013	0.048	0.006	0.316	0.027	514.2	180.036
Isononane	1000 mg/kg	Mean	263.3	10.728	4.073	2.085	0.042	0.469	0.128	0.087	0.027	0.042	0.005	0.348	0.025	437.5	166.440
		S.D.	5.9	T2 **	T2 **	A2 *	A2 **							94.8			36.758
<hr/>																	
Thymus																	
Test article	Dose	AB				RE				AB				RE			
		mg	5	mg/100g	5	mg	5	mg/100g	5	mg	5	mg/100g	5	mg	5	mg	5
Isononane	0 mg/kg	n	301.0	105.064	78.8	27.532	16.64	5.820	2.79	301.1	11.8	4.545	2.79	1.106	3.60	20.34	7.068
Isononane	1000 mg/kg	Mean	297.3	112.930	86.8	32.890	16.08	6.115	3.31	297.5	7.759	5.409	3.31	1.301	5.15	22.88	8.720
		S.D.	20.5	7.759	15.6	5.409	3.31									86.8	30.300
<hr/>																	
Uterus																	
Test article	Dose	AB				RE				AB				RE			
		mg	5	mg/100g	5	mg	5	mg/100g	5	mg	5	mg/100g	5	mg	5	mg	5
Isononane	0 mg/kg	n	576.2	200.774	2.106	0.084	0.084	0.047									
Isononane	1000 mg/kg	Mean	804.0	303.705	2.055	0.070	0.070	0.045									
		S.D.	309.9	111.683	0.783											102.3	38.750
<hr/>																	
Brain																	
Test article	Dose	AB				RE				AB				RE			
		mg	5	mg/100g	5	mg	5	mg/100g	5	mg	5	mg/100g	5	mg	5	mg	5
Isononane	0 mg/kg	n	58.1	19.405	0.084	0.047	0.047	0.023									
Isononane	1000 mg/kg	Mean	804.0	303.705	2.055	0.070	0.070	0.045									
		S.D.	309.9	111.683	0.783											23.5	8.323

AB : Absolute weight, RE : Relative weight by body weight
Significantly different from Isononane 0 mg/kg; * P<0.05, ** P<0.01
A2 : Welch test (two-side), T2 : Student t-test (two-side)

Organ weight
Sex : Male

Stage : Recovery Day 15												
		Kidney					Heart			Species : Rat		
		Body weight		Liver		RE		AB		RE		
Test article	Dose	g	5	g/100g	5	g	5	g/100g	5	g/100g	5	
Isononane	0 mg/kg	n	514.0	12.490	5	2.430	3.080	0.598	1.460	0.282	709.0	138.008
		Mean	17.3	0.748	0.139	0.191	0.053	0.094	0.108	0.023	32.6	6.613
Isononane	1000 mg/kg	n	485.2	13.620	5	2.806	3.352	0.694	1.442	0.298	810.0	167.196
		Mean	15.5	0.926	0.158	0.358	0.094	0.105	0.108	0.015	79.9	18.724
		S.D.	T2 *	T2 **						T2 *	T2 *	
Thymus										Testis		
		AB		RE		AB		RE		AB		
Test article	Dose	mg	5	mg/100g	5	mg	5	mg/100g	5	mg	5	
Isononane	0 mg/kg	n	326.2	63.490	5	69.2	13.490	11.32	2.206	22.70	4.422	3.368
		Mean	17.0	3.323	8.2	1.811	2.00	0.406	5.44	1.077	0.352	0.654
Isononane	1000 mg/kg	n	349.4	71.796	5	63.8	13.140	11.72	2.422	22.70	4.678	3.320
		Mean	99.1	19.458	9.2	1.707	1.34	0.328	6.60	1.338	0.331	0.688
		S.D.									0.080	
Epididymis										Brain		
		AB		RE		AB		RE		AB		
Test article	Dose	g	5	g/100g	5	mg	5	mg/100g	5	g	5	
Isononane	0 mg/kg	n	1.382	0.268	5	728.6	141.486	2.474	0.482	2.152	0.420	
		Mean	0.089	0.016	0.016	130.9	23.336	0.201	0.048	0.082	0.017	
Isononane	1000 mg/kg	n	1.328	0.276	5	677.2	139.902	2.186	0.454	2.116	0.436	
		Mean	0.124	0.034	0.034	112.6	25.612	0.174	0.050	0.058	0.021	

AB : Absolute weight, RE : Relative weight by body weight

Significantly different from Isononane 0 mg/kg; * P<0.05, ** P<0.01

T2 : Student t-test (two-side)

Organ weight
Sex : Female (satellite)

Test article	Dose	Stage : Recovery Day 15															
		Body weight					Liver					Kidney		Heart		Spleen	
		g	5	g	AB	RE	g	AB	RE	g	AB	RE	g	AB	mg	RE	
Isononane	0 mg/kg	n	294.6	7.488	2.542	1.952	0.664	0.934	0.318	5	5	5	5	5	5	5	
		Mean	13.1	0.787	0.252	0.131	0.042	0.047	0.013								
Isononane	1000 mg/kg	n	285.0	7.802	2.744	1.950	0.686	0.956	0.336	5	5	5	5	5	5	5	
		Mean	16.5	0.556	0.238	0.282	0.111	0.088	0.029								
		S.D.															

Test article	Dose	Stage : Recovery Day 15															
		Thymus					Adrenal					Pituitary gland		Thyroid		Ovary	
		AB	RE	AB	RE	AB	RE	AB	RE	AB	RE	AB	RE	AB	mg	RE	
Isononane	0 mg/kg	n	5	5	mg	mg/100g	5	5	mg	mg/100g	5	5	5	5	5	5	
		Mean	329.2	110.988	76.6	26.040	18.98	6.452	21.10	7.188	5	5	97.6	97.6	33.138	33.138	
		S.D.	103.1	31.612	8.6	3.196	1.27	0.514	3.45	1.331			9.3	9.3	2.959	2.959	
Isononane	1000 mg/kg	n	325.2	115.044	80.2	28.234	16.90	5.924	19.68	6.900	5	5	5	5	5	5	
		Mean	67.6	28.401	6.3	2.949	3.07	0.933	3.26	0.973							
		S.D.															

Test article	Dose	Stage : Recovery Day 15										
		Uterus					Brain					
		AB	RE	AB	RE	AB	RE	AB	RE	AB	RE	
Isononane	0 mg/kg	n	675.0	228.554	2.050	0.696	5	5	5	5	5	5
		Mean	205.6	65.529	0.097	0.049						
		S.D.										
Isononane	1000 mg/kg	n	551.8	194.496	2.100	0.738	5	5	5	5	5	5
		Mean	32.2	20.704	0.080	0.047						
		S.D.										

AB : Absolute weight, RE : Relative weight by body weight
Not significantly different from Isononane 0 mg/kg

Histopathological findings

Organ Findings	Test article	Sex : Male				Species : Rat			
		Isononane		Isononane		Isononane		Isononane	
		Dose	0 mg/kg	60 mg/kg	250 mg/kg	1000 mg/kg			
Lung	Number of Animals Grade	- <7>	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+
Bronchus		7	<7>	0	<0>	1	<1>	1	<7>
Trachea		7	<7>	0	<0>	1	<1>	1	<7>
Submandibular gland		7	<7>	0	<0>	1	<1>	1	<7>
Esophagus		7	<7>	0	<0>	1	<1>	1	<7>
Stomach		7	<7>	0	<0>	1	<1>	1	<7>
Duodenum		7	<7>	0	<0>	1	<1>	1	<7>
Jejunum		7	<7>	0	<0>	1	<1>	1	<7>
Ileum		7	<7>	0	<0>	1	<1>	1	<7>

<7> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Not significantly different from Isononane 0 mg/kg

Histopathological findings

Organ Findings	Sex : Male Test article	Isononane			Isononane			Species : Rat
		Dose	mg/kg Number of Animals Grade	60 - 1+ 2+ 3+ 4+ <7>	250 mg/kg 12 - 1+ 2+ 3+ 4+ <0>	250 mg/kg 12 - 1+ 2+ 3+ 4+ <1>	1000 mg/kg 7 - 1+ 2+ 3+ 4+ <7>	
Cecum		7	<7>	0	<0>	1	<1>	7
Colon		7	<7>	0	<0>	1	<1>	7
Rectum		7	<7>	0	<0>	1	<1>	7
Pancreas			<7>	<0>	<0>	<1>	<1>	<7>
Infiltration, inflammatory cell, interstitium		6	1 0 0 0	0 0 0 0	1 0 0 0	7 0 0 0	7 0 0 0	
Liver		7	<7>	0	<0>	1	<1>	7
Heart			<7>	<0>	<0>	<1>	<1>	<7>
Infiltration, inflammatory cell, focal		6	1 0 0 0	0 0 0 0	1 0 0 0	7 0 0 0	7 0 0 0	
Kidney			<7>	<12>	<12>	<12>	<12>	<7>
Eosinophilic body, proximal tubular epithelium		7	0 0 0 0	0 8 4 0	0 3 8 1	0 0 4 3	0 0 4 3	
Basophilic change, renal tubule, focal		7	0 0 0 0	5 5 2 0	3 6 3 0	4 1 2 0	FT \$\$	FT \$\$

<> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Significantly different from Isononane 0 mg/kg: \$ P<0.05, \$\$ P<0.01

FT : Fisher's exact test (two-side)

Histopathological findings

Sex : Male		Histopathological findings				Species : Rat			
Organ Findings	Test article	Isononane		Stage : Day 29 Isononane		Isononane		Isononane	
		Dose	0 mg/kg	60 mg/kg	250 mg/kg	1000 mg/kg			
		Number of Animals Grade	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+
Kidney	Dilatation, renal tubule	7	0 <7>	0 0 0 0	12 0 <12>	11 1 <12>	6 0 <7>	6 0 1 0 0	6 0 1 0 0
	Cast, hyaline	7	0 0 0 0	11 1 0 0 0	10 2 0 0 0	7 0 0 0 0			
	Urinary bladder	7	<7>	0 <0>	1 <1>	7 <7>			
	Testis Sertoli-cell-only tubule	7	0 <7>	0 0 0 0 0	1 0 <1>	6 0 0 0 1			
	Dilatation, seminiferous tubule	7	0 0 0 0	0 0 0 0 0	1 0 0 0 0	6 1 0 0 0			
Epididymis	Decrease, spermatozoa	7	<7>	0 0 <0>	1 0 <1>	6 0 0 0 1			
	Cell debris, lumen	7	0 0 0 0	0 0 0 0 0	1 0 0 0 0	6 0 1 0 0			
	Prostate Inflammation, interstitium	4	<7> 2 0 1 0	0 0 <0>	0 0 1 0	1 4 2 0 0			
	Seminal vesicle	7	<7>	0 <0>	1 <1>	7 <7>			
	Coagulating gland	7	<7>	0 <0>	1 <1>	7 <7>			

<7> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Not significantly different from Isononane 0 mg/kg

Histopathological findings

Organ Findings	Sex : Male	Test article	Isononane				Isononane				Species : Rat
			Dose	mg/kg	60	250	mg/kg	1000	mg/kg	7	
Cerebrum	Number of Animals Grade	- 1+ 2+ 3+ 4+	7	<7>	0	<0>	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	<7>	
Cerebellum			7	<7>	0	<0>	1	<1>	1	7	<7>
Pons			7	<7>	0	<0>	1	<1>	1	7	<7>
Spinal cord			7	<7>	0	<0>	1	<1>	1	7	<7>
Sciatic nerve			7	<7>	0	<0>	1	<1>	1	7	<7>
Spleen			7	<7>	0	<0>	1	<1>	1	7	<7>
Thymus			7	<7>	0	<0>	1	<1>	1	7	<7>
Bone marrow, femur			7	<7>	0	<0>	1	<1>	1	7	<7>
Submandibular lymph node			7	<7>	0	<0>	1	<1>	1	7	<7>

<0> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Not significantly different from Isononane 0 mg/kg

Histopathological findings

Organ Findings	Sex : Male	Test article		Stage : Day 29		Isononane		Isononane		Species : Rat
		Dose	Isononane		mg/kg	60	250	mg/kg	1000	
Mesenteric lymph node	Number of Animals Grade	<7>	7	<0>	12	12	7	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	
Peyer's patch Mineralization	6 1 0 0 0	<7>	0	0 0 0 0 0	0 0 0 0 0	1 0 0 0 0	1 0 0 0 0	7 0 0 0 0	7 0 0 0 0	<7>
Pituitary gland	7	<7>	0	<0>		1	<1>		7	<7>
Thyroid Remnant, ultimobranchial body	5 2 0 0 0	<7>	0	0 0 0 0 0	0 0 0 0 0	1 0 0 0 0	1 0 0 0 0	4 3 0 0 0	4 3 0 0 0	<7>
Parathyroid	7	<7>	0	<0>		1	<1>		7	<7>
Adrenal	7	<7>	0	<0>		1	<1>		7	<7>
Eyeball Dysplasia, retina	5 2 0 0 0	<7>	0	0 0 0 0 0	0 0 0 0 0	1 0 0 0 0	1 0 0 0 0	7 0 0 0 0	7 0 0 0 0	<7>
Atrophy, retina, focal	6 1 0 0 0	0	0 0 0 0 0	0 0 0 0 0	1 0 0 0 0	1 0 0 0 0	7 0 0 0 0	7 0 0 0 0	7 0 0 0 0	

<> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe
Not significantly different from Isononane 0 mg/kg

Histopathological findings

Organ Findings	Sex : Male	Test article		Isononane		Stage : Day 29 Isononane		Isononane		Species : Rat
		Dose	Number of Animals Grade	0 mg/kg	60 mg/kg	250 mg/kg	1000 mg/kg			
		- 1+ 2+ 3+ 4+	<7>	- 1+ 2+ 3+ 4+	<0>	- 1+ 2+ 3+ 4+	<1>	- 1+ 2+ 3+ 4+	<7>	
Harderian gland Infiltration, inflammatory cell, focal		6 1 0 0 0	0 0 0 0 0	0 0 0 0 0	1 0 0 0 0	1 0 0 0 0	7 0 0 0 0			
Skeletal muscle		<7>		<0>	0	1	<1>	1	7	<7>
Femur		7	<7>	0	<0>	1	<1>	1	7	<7>
Mammary gland		7	<7>	0	<0>	1	<1>	1	7	<7>

<> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Not significantly different from Isononane 0 mg/kg

Histopathological findings

Organ Findings	Test article	Sex : Female				Species : Rat			
		Isononane		Stage : Day 14 after delivery		Isononane		Isononane	
Dose	0	60 mg/kg	250 mg/kg	1000 mg/kg	11				
Number of Animals Grade	10	12	9	9	9				
Lung	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	<0>	<0>	<0>	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	
Accumulation, macrophage, alveolar	9 1 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	11 0 0 0 0	11 0 0 0 0	11 0 0 0 0	
Bronchus	<10>	0	<0>	0	<0>	0	0	<11>	
Trachea	<10>	0	<0>	0	<0>	0	0	<11>	
Submandibular gland	<10>	0	<0>	0	<0>	0	0	<11>	
Esophagus	<10>	0	<0>	0	<0>	0	0	<11>	
Stomach	<10>	0	<0>	0	<0>	0	0	<11>	
Duodenum	<10>	0	<0>	0	<0>	0	0	<11>	
Jejunum	<10>	0	<0>	0	<0>	0	0	<11>	
Ileum	<10>	0	<0>	0	<0>	0	0	<11>	

<0> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Not significantly different from Isononane 0 mg/kg

Histopathological findings

Organ Findings	Test article	Sex : Female				Sex : Male				Species : Rat
		Isononane		Isononane		Isononane		Isononane		
Dose	0	60 mg/kg	250 mg/kg	1000 mg/kg	1000 mg/kg	1000 mg/kg	1000 mg/kg	1000 mg/kg	1000 mg/kg	
Number of Animals Grade	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	
Cecum	10 <10>	0 <20>	0 <20>	0 <20>	0 <20>	0 <20>	0 <20>	0 <20>	0 <20>	
Colon	10 <10>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	
Rectum	10 <10>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	
Pancreas	10 <10>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	
Liver	Hypertrophy, hepatocyte, centrilobular	10 0 0 0 <10>	12 0 0 0 <12>	9 0 0 0 <9>	9 0 0 0 <9>	2 9 0 0 FT \$\$	2 9 0 0 FT $$	2 9 0 0 FT $$	2 9 0 0 FT $$	
Heart	Infiltration, inflammatory cell, focal	10 0 0 0 <10>	0 0 0 0 <0>	0 0 0 0 <0>	0 0 0 0 <0>	10 1 0 0	10 1 0 0	10 1 0 0	10 1 0 0	
Kidney	Cast, hyaline	10 0 0 0 <10>	0 0 0 0 <0>	0 0 0 0 <0>	0 0 0 0 <0>	10 1 0 0	10 1 0 0	10 1 0 0	10 1 0 0	
	Basophilic change, renal tubule, focal	9 1 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	11 0 0 0	11 0 0 0	11 0 0 0	11 0 0 0	
	Cyst	9 1 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	11 0 0 0	11 0 0 0	11 0 0 0	11 0 0 0	

<> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Significantly different from Isononane 0 mg/kg: \$\$ P<0.01

FT : Fisher's exact test (two-side)

Histopathological findings

Organ Findings	Test article	Sex : Female				Species : Rat			
		Isononane		Stage : Day 14 after delivery		Isononane		Isononane	
Dose	0	60 mg/kg	250 mg/kg	1000 mg/kg					
Number of Animals Grade	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	<0>	<0>	<0>	<0>	
Urinary bladder	10 <10>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	
Ovary Cyst, lutein	9 1 <10> 0 0	0 0 0 0	0 0 0 0	0 0 0 0	<0>	<0>	<0>	<11>	
Uterine horn	10 <10>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	
Uterine cervix	10 <10>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	
Vagina	10 <10>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	
Cerebrum	10 <10>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	
Cerebellum	10 <10>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	
Pons	10 <10>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	
Spinal cord	10 <10>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	

<0> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Not significantly different from Isononane 0 mg/kg

Histopathological findings

Sex : Female		Test article		Isononane		Stage : Day 14 after delivery		Isononane		Isononane		Species : Rat
Organ Findings	Number of Animals Grade	Dose	0 mg/kg	60 mg/kg	120 mg/kg	<0>	250 mg/kg	9 mg/kg	<0>	1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+
Sciatic nerve		10 <10>	0 <10>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>
Spleen Atrophy, white pulp		10 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
Thymus Remnant, epithelial cell		8 2 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
Bone marrow, femur		10 <10>	0 <10>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>
Submandibular lymph node		10 <10>	0 <10>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>
Mesenteric lymph node		10 <10>	0 <10>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>
Peyer's patch Mineralization		10 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0
Pituitary gland		10 <10>	0 <10>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>	0 <0>

<0> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Not significantly different from Isononane 0 mg/kg

Histopathological findings

Sex : Female		Test article		Isononane		Stage : Day 14 after delivery		Isononane		Isononane		Species : Rat
Organ	Findings	Dose	Number of Animals	0 mg/kg	60 mg/kg	<0>	250 mg/kg	0 mg/kg	1000 mg/kg	11 mg/kg	- 1+ 2+ 3+ 4+	
		Grade	10	- 1+ 2+ 3+ 4+	12	- 1+ 2+ 3+ 4+	9	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	
Thyroid	Remnant, ultimobranchial body	10	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	
Parathyroid		10	<10>	0	<0>	0	<0>	0	<0>	0	<11>	
Adrenal		10	<10>	0	<0>	0	<0>	0	<0>	0	<11>	
Eyeball	Dysplasia, retina	9 1	<10> 0 0 0	0 0 0 0	<0>	0 0 0 0	<0>	0 0 0 0	0 0 0 0	10 1 0 0	<11>	
Harderian gland		10	<10>	0	<0>	0	<0>	0	<0>	0	<11>	
Skeletal muscle		10	<10>	0	<0>	0	<0>	0	<0>	0	<11>	
Femur		10	<10>	0	<0>	0	<0>	0	<0>	0	<11>	
Mammary gland	Infiltration, inflammatory cell	10	<10> 0 0 0	0 0 0 0	<0>	0 0 0 0	<0>	0 0 0 0	0 0 0 0	10 1 0 0	<11>	

<0> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe
Not significantly different from Isononane 0 mg/kg

		Histopathological findings				Species : Rat			
		Test article		Isononane		Stage : Euthanasia		Isononane	
Organ Findings	Sex : Female	Dose		0		250 mg/kg		1000 mg/kg	
		Number of Animals Grade		<1>	1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	<1>	- 1+ 2+ 3+ 4+	<1>
Lung				1			1		1
Bronchus		1	<1>			1	<1>		<1>
Trachea		1	<1>			1	<1>		<1>
Submandibular gland		1	<1>			1	<1>		<1>
Esophagus		1	<1>			1	<1>		<1>
Stomach Ulcer, pyloric stomach		1	0 0 0	<1>	0 0 1	0 0 0	<1>	1 0 0 0 0	<1>
Duodenum Ulcer		1	0 0 0	<1>	0 0 1	0 0 0	<1>	1 0 0 0 0	<1>
Jejunum		1	<1>			1	<1>		<1>
Ileum		1	<1>			1	<1>		<1>

<1> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

		Histopathological findings				Species : Rat				
		Sex : Female		Test article		Isononane		Stage : Euthanasia		
Organ Findings	Cecum	Dose		0		250 mg/kg		1000 mg/kg		
		Number of Animals Grade		<1>		- 1+ 2+ 3+ 4+		- 1+ 2+ 3+ 4+		
							<1>		<1>	
Colon		1	<1>	1	<1>	1	<1>	1	<1>	
Rectum		1	<1>	1	<1>	1	<1>	1	<1>	
Pancreas		1	<1>	1	<1>	1	<1>	1	<1>	
Liver		Hypertrophy, hepatocyte, centrilobular	<1>		<1>		<1>			
		1 0 0 0 0	1 0 0 0 0		0 0 1 0 0		0 0 1 0 0			
Vacuolation, hepatocyte, periportal		1 0 0 0 0	1 0 0 0 0		0 1 0 0 0		0 1 0 0 0			
Vacuolation, hepatocyte, diffuse		1 0 0 0 0	0 0 1 0 0		1 0 0 0 0		1 0 0 0 0			
Necrosis, focal		0 0 1 0 0	1 0 0 0 0		1 0 0 0 0		1 0 0 0 0			
Heart		<1>	1	<1>	1	<1>	1	<1>		

<1> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Histopathological findings

Organ Findings	Sex : Female Test article	Histopathological findings				Species : Rat	
		Isononane		Stage : Euthanasia Isononane			
		Dose	mg/kg	250 mg/kg	1000 mg/kg		
Grade	Number of Animals	1	<1>	1	1		
		-	1+ 2+ 3+ 4+	-	1+ 2+ 3+ 4+		
Kidney Vacuolation, tubular epithelium		1	0 0 0 0	0 1 0 0	0 0 1 0		
Necrosis, renal tubule, cortex		0	0 0 0 1	1 0 0 0	1 0 0 0		
Urinary bladder		<1>		<1>		<1>	
		1		1		1	
Ovary		<1>		<1>		<1>	
		1		1		1	
Uterine horn Ulcer		0 0 0 1 0	1 0 0 0 0	1 0 0 0 0	1 0 0 0 0		
Uterine cervix		<1>		<1>		<1>	
		1		1		1	
Vagina		<1>		<1>		<1>	
		1		1		1	
Cerebrum		<1>		<1>		<1>	
		1		1		1	
Cerebellum		<1>		<1>		<1>	
		1		1		1	

<1> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

		Histopathological findings						Species : Rat		
		Test article			Isononane			Stage : Euthanasia		
Organ Findings	Sex : Female	Dose	0		250 mg/kg	1	1000 mg/kg	1	Isononane	
		Number of Animals Grade	-	<1>	-	1+ 2+ 3+ 4+	-	1+ 2+ 3+ 4+	<1>	
		Pons	1	<1>	1	<1>	1	<1>	1	
Spinal cord										
Sciatic nerve										
Spleen Atrophy, white pulp		1	<1>	1	<1>	1	<1>	1	<1>	
Thymus Atrophy, cortex		1	0	0	0	1	0	0	<1>	
Bone marrow, femur Decrease, hematopoiesis		1	0	0	0	0	0	0	<1>	
Submandibular lymph node Infiltration, inflammatory cell, granulocytic cell, sinus		1	0	0	0	1	0	0	<1>	
Mesenteric lymph node		1	<1>	1	<1>	1	<1>	1	<1>	
Peyer's patch		1	<1>	1	<1>	1	<1>	1	<1>	

<1> : Number of animals examined
 - : Not remarkable
 1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

		Histopathological findings				Species : Rat			
		Test article		Isononane		Stage : Euthanasia		Isononane	
Organ Findings	Grade	Dose	0		250 mg/kg	1	1000 mg/kg	1	
		Number of Animals	-	1+ 2+ 3+ 4+	-	1+ 2+ 3+ 4+	-	1+ 2+ 3+ 4+	
		Grade	<1>		<1>		<1>		
Pituitary gland		1		1		1		1	
Thyroid		1	<1>	1	<1>	1	<1>	1	
Parathyroid		1	<1>	1	<1>	1	<1>	1	
Adrenal		0 0 0 1	<1>	1 0 0 0	<1>	1 0 0 0	<1>	0 0 0 0	
Necrosis, cortical cell									
Eyeball		1	<1>	1	<1>	1	<1>	1	
Harderian gland		1	<1>	1	<1>	1	<1>	1	
Skeletal muscle		1	<1>	1	<1>	1	<1>	1	
Femur		1	<1>	1	<1>	1	<1>	1	
Mammary gland		1	<1>	1	<1>	1	<1>	1	

<> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Organ Findings	Sex : Female	Histopathological findings				Species : Rat	
		Test article		Isononane			
		Dose	mg/kg	0	250 mg/kg		
Lung		Number of Animals Grade		<1>	1		
		-	1+ 2+ 3+ 4+	-	1+ 2+ 3+ 4+		
Bronchus		1	<1>	1	1	<1>	
Trachea		1	<1>	1	1	<1>	
Submandibular gland		1	<1>	1	1	<1>	
Esophagus		1	<1>	1	1	<1>	
Stomach		1	<1>	1	1	<1>	
Duodenum		1	<1>	1	1	<1>	
Jejunum		1	<1>	1	1	<1>	
Ileum		1	<1>	1	1	<1>	

<1> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Organ Findings	Sex : Female	Histopathological findings		Species : Rat	
		Test article	Isononane	Test article	Isononane
Cecum	Dose		0 mg/kg	250 mg/kg	
	Number of Animals Grade		- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	
		<1>	1	<1>	1
Colon		1	<1>	1	<1>
Rectum		1	<1>	1	<1>
Pancreas	Atrophy, acinar cell, focal	0 1 0 0 0	1 0 0 0 0	<1>	
Liver	Hypertrophy, hepatocyte, centrilobular	1 0 0 0 0	0 1 0 0 0	<1>	
Heart		1	<1>	1	<1>
Kidney		1	<1>	1	<1>
Urinary bladder		1	<1>	1	<1>
Ovary		1	<1>	1	<1>

<1> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Histopathological findings		Sex : Female		Test article		Isononane		Stage : Unsuccessful mating		Isononane		Species : Rat			
Organ Findings	Grade	Number of Animals		Dose		mg/kg		mg/kg		1		-			
		-	1	-	<1>	1	-	1	-	1	-	1	2+	3+	4+
Uterine horn		1													
Uterine cervix				<1>				<1>							
Vagina				1				1							
Cerebrum				<1>				<1>							
Cerebellum				1				1							
Pons				<1>				<1>							
Spinal cord				1				1							
Sciatic nerve				<1>				<1>							
Spleen				1				1							

<1> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

		Histopathological findings		Species : Rat	
		Sex : Female	Test article	Isononane	Stage : Unsuccessful mating Isononane
Organ Findings	Grade	Dose	0	250 mg/kg	250 mg/kg
		Number of Animals	1	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+
Thymus	Remnant, epithelial cell		1 <1>	0 0 0 0	0 1 0 0
Bone marrow, femur		1	<1>	1	<1>
Submandibular lymph node		1	<1>	1	<1>
Mesenteric lymph node		1	<1>	1	<1>
Peyer's patch		1	<1>	1	<1>
Pituitary gland Cyst, pars distalis		0 1	0 0	1 0 0 0	<1>
Thyroid		1	<1>	1	<1>
Parathyroid		1	<1>	1	<1>
Adrenal		1	<1>	1	<1>

<> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

		Histopathological findings		Species : Rat	
		Sex : Female	Test article	Isononane	Stage : Unsuccessful mating Isononane
Organ Findings	Grade	Dose		0 mg/kg	250 mg/kg
		Number of Animals		- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+
Eyeball			<1>		<1>
		1	1		1
Harderian gland			<1>		<1>
		1	1		1
Skeletal muscle			<1>		<1>
		1	1		1
Femur			<1>		<1>
		1	1		1
Mammary gland			<1>		<1>
		1	1		1

<1> : Number of animals examined

- : Not remarkable
1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Organ Findings	Histopathological findings		Species : Rat
	Sex : Female	Test article	
Lung	Dose	250 mg/kg	
	Number of Animals Grade	- 1+ 2+ 3+ 4+	
	<1>		
Bronchus			
	1 <1>		
Trachea			
	1 <1>		
Submandibular gland			
	1 <1>		
Esophagus			
	1 <1>		
Stomach			
	1 <1>		
Duodenum			
	1 <1>		
Jejunum			
	1 <1>		
Ileum			
	1 <1>		

<1> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Histopathological findings

Organ Findings	Sex : Female	Test article	Stage : Non-pregnancy				Species : Rat
			Dose	Number of Animals	Grade		
Cecum							
Colon			<1>				
Rectum			<1>				
Pancreas			<1>				
Liver		Vacuolation, hepatocyte, periportal	<1>	0	1	0	
Heart			<1>	1			
Kidney		Dilatation, renal pelvis	<1>	0	1	0	0
Urinary bladder			<1>	1			
Ovary			<1>	1			

<1> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Histopathological findings

Organ Findings	Sex : Female		Test article	Stage : Non-pregnancy		Species : Rat
	Number of Animals	Grade		Dose	mg/kg	
Uterine horn		<1>		250	1	
	1				- 1+ 2+ 3+ 4+	
Uterine cervix		<1>				
	1					
Vagina		<1>				
	1					
Cerebrum		<1>				
	1					
Cerebellum		<1>				
	1					
Pons		<1>				
	1					
Spinal cord		<1>				
	1					
Sciatic nerve		<1>				
	1					
Spleen		<1>				
	1					

<1> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Histopathological findings

Organ Findings	Sex : Female		Test article	Isomannane	Stage : Non-pregnancy	Species : Rat
	Number of Animals	Grade				
Thymus		<1>	1			
Bone marrow, femur		<1>	1			
Submandibular lymph node		<1>	1			
Mesenteric lymph node		<1>	1			
Peyer's patch		<1>	1			
Pituitary gland		<1>	1			
Thyroid		<1>	1			
Parathyroid		<1>	1			
Adrenal		<1>	1			

<> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Histopathological findings

Organ Findings	Sex : Female		Test article	Isomannane	Stage : Non-pregnancy	Species : Rat
	Number of Animals	Grade				
Eyeball		<1>				
Harderian gland		<1>				
Skeletal muscle		<1>				
Femur		<1>				
Mammary gland		<1>				

<> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Organ Findings	Histopathological findings			Species : Rat
	Sex : Female (satellite)		Isononane	
	Test article		Stage : Day 29 Isononane	
Dose		0 mg/kg	1000 mg/kg	
Number of Animals Grade	-	5	4	
Lung	<5>	<5>	<4>	
Bronchus	5	<5>	4	
Trachea	5	<5>	4	
Submandibular gland	5	<5>	4	
Esophagus	5	<5>	4	
Stomach	5	<5>	4	
Duodenum	5	<5>	4	
Jejunum	5	<5>	4	
Ileum	5	<5>	4	

<> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Not significantly different from Isononane 0 mg/kg

Organ Findings	Histopathological findings		Species : Rat	
	Sex : Female (satellite)	Test article	Isononane	Isononane
Cecum	Dose	0	1000 mg/kg	1000 mg/kg
	Number of Animals Grade	- 5 <5>	- 1+ 2+ 3+ 4+ 4	- 1+ 2+ 3+ 4+ <4>
Colon		5	<5>	4
Rectum		5	<5>	4
Pancreas		5	<5>	4
Liver	Hypertrophy, hepatocyte, centrilobular	5 0 0 0 0	FT \$\$	<4>
Heart		5	<5>	4
Kidney		5	<5>	4
Urinary bladder		5	<5>	4
Ovary		5	<5>	4

<> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Significantly different from Isononane 0 mg/kg: \$\$ P<0.01

FT : Fisher's exact test (two-side)

Organ Findings	Histopathological findings			Species : Rat		
	Sex : Female (satellite)		Test article		Stage : Day 29	
			Isononane	Isononane		
Dose		0		1000 mg/kg		
Number of Animals Grade		5	- 1+ 2+ 3+ 4+	4	- 1+ 2+ 3+ 4+	
Uterine horn		<5> 5	<4> 4			
Uterine cervix		<5> 5	<4> 4			
Vagina		<5> 5	<4> 4			
Cerebrum		<5> 5	<4> 4			
Cerebellum		<5> 5	<4> 4			
Pons		<5> 5	<4> 4			
Spinal cord		<5> 5	<4> 4			
Sciatic nerve		<5> 5	<4> 4			
Spleen		<5> 5	<4> 4			

<> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe
Not significantly different from Isononane 0 mg/kg

		Histopathological findings		Species : Rat	
		Sex : Female (satellite)		Stage : Day 29	
		Test article		Isomonane	
Organ	Findings	Dose	mg/kg	1000 mg/kg	4 mg/kg
		Number of Animals	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+
		Grade	<5>	<4>	<4>
Thymus	Remnant, epithelial cell	4	1 0 0 0	4 0 0 0	0 0 0 0
Bone marrow, femur		5	<5>	4	<4>
Submandibular lymph node		5	<5>	4	<4>
Mesenteric lymph node		5	<5>	4	<4>
Peyer's patch		4	<5>	4	<4>
Mineralization		1	0 0 0 0	0 0 0 0	0 0 0 0
Pituitary gland		5	<5>	4	<4>
Thyroid		5	<5>	4	<4>
Parathyroid		5	<5>	4	<4>
Adrenal		5	<5>	4	<4>

<> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Not significantly different from Isomonane 0 mg/kg

Organ Findings	Histopathological findings				Species : Rat
	Sex : Female (satellite)	Test article	Isononane	Stage : Day 29 Isononane	
Eyeball	Dose	0	1000 mg/kg	1000 mg/kg	
	Number of Animals Grade	- 5 <5>	- 1+ 2+ 3+ 4+	- 1+ 2+ 3+ 4+	
		5	<4>	4	
Harderian gland		5	<5>	4	
Skeletal muscle		5	<5>	4	
Femur		5	<5>	4	
Mammary gland		5	<5>	4	

<> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Not significantly different from Isononane 0 mg/kg

Organ Findings	Histopathological findings		Species : Rat
	Sex : Female (satellite)	Test article	
Lung		Isononane	
	Dose	1000 mg/kg	
	Number of Animals Grade	- 1+ 2+ 3+ 4+	
		<1>	
Bronchus	1	<1>	
Trachea	1	<1>	
Submandibular gland	1	<1>	
Esophagus	1	<1>	
Stomach	1	<1>	
Duodenum	1	<1>	
Jejunum	1	<1>	
Ileum	1	<1>	
Cecum	1	<1>	
Colon	1	<1>	
Rectum	1	<1>	
Pancreas	1	<1>	

<1> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Organ Findings	Histopathological findings			Species : Rat
	Sex : Female (satellite)	Test article	Isononane	
	Dose	Number of Animals Grade	mg/kg	
Liver			- 1+ 2+ 3+ 4+	
Hypertrophy, hepatocyte, centrilobular		0 1 0 0 0	<1>	
Heart		1	<1>	
Kidney				
Dilatation, renal tubule		0 0 1 0 0	<1>	
Vacuolation, tubular epithelium		0 1 0 0 0	<1>	
Urinary bladder		1	<1>	
Ovary		1	<1>	
Uterine horn		1	<1>	
Uterine cervix		1	<1>	
Vagina		1	<1>	
Cerebrum		1	<1>	
Cerebellum		1	<1>	
Pons		1	<1>	
Spinal cord		1	<1>	
Sciatic nerve		1	<1>	

<1> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Histopathological findings				Species : Rat
Sex : Female (satellite)			Test article	Stage : Euthanasia
Organ	Findings	Number of Animals Grade	Dose	Isononane
Spleen	Atrophy, white pulp		1000 mg/kg 1	<1> 0 0 0 1 0
Thymus	Atrophy, cortex			<1> 0 0 0 1 0
Bone marrow, femur	Decrease, hematopoiesis			<1> 0 1 0 0 0
Submandibular lymph node				<1>
Depletion, lymphoid, paracortical zone				0 0 1 0 0
Mesenteric lymph node				<1> 1
Peyer's patch				<1> 1
Pituitary gland				<1> 1
Thyroid				<1> 1
Parathyroid				<1> 1
Adrenal				<1> 1
Eyeball				<1> 1
Harderian gland				<1> 1
Skeletal muscle				<1> 1
Femur				<1> 1

<> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Histopathological findings		Stage : Euthanasia		Species : Rat
Sex : Female (satellite)		Isomonane		
Test article				
Dose				
Organ	Number of Animals	Isomonane		
Findings	Grade	1000 mg/kg	1	
Mammary gland		-	1+	
		<1>	2+	
			3+	
			4+	
<> : Number of animals examined				
- : Not remarkable				
1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe				

<> : Number of animals examined
- : Not remarkable
1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Histopathological findings

Organ Findings	Sex : Male	Test article	Isomonane				Stage : Recovery Day 15 Isomonane	Species : Rat		
			Dose	0 mg/kg	5 mg/kg	5 mg/kg				
		Number of Animals	- 1+ 2+	3+ 4+	- 1+ 2+	3+ 4+				
Kidney		Grade	<5>	<5>	<5>	<5>				
		Basophilic change, renal tubule, focal	5	0	0	0	1	2	0	0
					FT \$					

<> : Number of animals examined

- : Not remarkable

1+ : Slight, 2+ : Mild, 3+ : Moderate, 4+ : Severe

Significantly different from Isomonane 0 mg/kg: \$ P<0.05

FT : Fisher's exact test (two-side)

		Sex : Female (satellite)		Isononane		Stage : Recovery Day 15		Species : Rat	
		Test article							
Organ Findings	Dose		0			1000			
	Number of Animals		5			5			
	Grade	-	-	-	-	-			
Liver		5	<5>	5	5	<5>			

<> : Number of animals examined

- : Not remarkable

Not significantly different from Isononane 0 mg/kg

Table 17

Study No. : SR19180

Test article Dose	n	Generation : F0		Number of animals with acyclic or irregular cycle	Species : Rat
		Mean length of estrous cycle (Days)	Number of estrus		
Isononane 0 mg/kg		Mean S.D.	4.13 0.43	3.4 0.7	12 (1)
Isononane 60 mg/kg	n	Mean S.D.	4.04 0.14	3.7 0.5	12 (0)
Isononane 250 mg/kg	n	Mean S.D.	4.03 0.09	3.7 0.5	12 (0)
Isononane 1000 mg/kg	n	Mean S.D.	4.17 0.39	3.4 0.8	12 (2)

(): Values in brackets represent number of animals with acyclic or irregular cycle.
Not significantly different from Isononane 0 mg/kg

Test article Dose	Reproductive performance Generation : F0						Species : Rat						
	Number of pairs	Day of conceiving	Sex : Male		Sex : Female		Copulation index (%)	Fertility index (%)	Copulation index (%)	Fertility index (%)	Copulation index (%)	Fertility index (%)	Total
			Copulation index (%)	Fertility index (%)	Copulation index (%)	Fertility index (%)							
Isononane 0 mg/kg	n	12	11	(11/12)	2.7	91.7	(11/11)	100.0					
	Mean S.D.		1.4										
Isononane 60 mg/kg	n	12	12	(12/12)	2.9	100.0	(12/12)	100.0					
	Mean S.D.		0.9										
Isononane 250 mg/kg	n	12	11	(11/12)	3.8	91.7	(10/11)	90.9					
	Mean S.D.		3.2										
Isononane 1000 mg/kg	n	12	12	(12/12)	3.0	100.0	(12/12)	100.0					
	Mean S.D.		1.6										

Not significantly different from Isononane 0 mg/kg

Reproductive performance
Generation : F0

Test article Dose		Number of pairs	Day of conceiving	Sex : Female		Copulation index (%)	Fertility index (%)	Copulation index (%)	Fertility index (%)	Copulation index (%)	Fertility index (%)	Total
				n	(11/12)			(11/12)	(11/11)	(11/12)	(11/11)	
Isononane 0 mg/kg		n	12	11	(11/12)	2.7	91.7	1.4	100.0	91.7	100.0	
Isononane 60 mg/kg		n	12	12	(12/12)	2.9	100.0	0.9	100.0	100.0	100.0	(12/12)
Isononane 250 mg/kg		n	12	11	(11/12)	3.8	91.7	3.2	100.0	91.7	100.0	(12/12)
Isononane 1000 mg/kg		n	12	12	(12/12)	3.0	100.0	1.6	100.0	100.0	100.0	(12/12)

Not significantly different from Isononane 0 mg/kg

Species : Rat

Test article Dose		Number of pairs	Day of conceiving	1st mating		Copulation index (%)	Fertility index (%)	Copulation index (%)	Fertility index (%)	Copulation index (%)	Fertility index (%)	Total
				n	(11/12)			(11/12)	(11/11)	(11/12)	(11/11)	
Isononane 0 mg/kg		n	12	11	(11/12)	2.7	91.7	1.4	100.0	91.7	100.0	(11/11)

Delivery data Generation : F0										Species : Rat				
Test article Dose	n	Gestation length (day)	Gestation index (%)	Number of implan- tation	Delivery index (%)	Number of offspring			M	F	Total	Sex ratio (%)	Number of live- borns	Number of dead newborns
						M	F	Total						
Isononane 0 mg/kg	n	10	10/11	10	10	10	10	10	M	F	Total	68/129	69/130	10
	Mean	22.40	90.9	14.5	89.59	13.0	6.8	6.1						
	S.D.	0.52		1.1	9.93	1.8	2.9	2.0						
Isononane 60 mg/kg	n	12	12/12	12	12	12	12	12	M	F	Total	86/158	88/160	12
	Mean	22.50	100.0	13.7	97.74	13.3	7.2	6.0						
	S.D.	0.52		3.5	5.95	3.5	2.5	1.8						
Isononane 250 mg/kg	n	10	9/10	10	10	10	10	10	M	F	Total	66/120	80/138	10
	Mean	22.30	90.0	15.2	91.42	14.0	6.6	5.4						
	S.D.	0.48		2.4	8.59	3.0	3.7	2.8						
Isononane 1000 mg/kg	n	12	12/12	12	12	12	12	12	M	F	Total	75/161	77/165	12
	Mean	22.50	100.0	14.6	94.28	13.8	6.3	7.2						
	S.D.	0.52		1.5	10.78	2.1	1.9	2.1						

M : Male, F : Female

Not significantly different from Isononane 0 mg/kg

Delivery data (external examination of offspring)

Generation : F1

Postnatal Day : 0

Species : Rat

	Isononane	Isononane	Isononane	Isononane	Isononane
Test article	0	60	250	1000	
Dose	mg/kg	mg/kg	mg/kg	mg/kg	
Dose unit	10	12	9	12	
Number of dams	129	158	120	161	
Number of offspring	0(0.00)	0(0.00)	0(0.00)	0(0.00)	
Number of dams with anomalous offspring (incidence %)					
Number of offspring with any anomaly (incidence %)	0(0.00)	0(0.00)	0(0.00)	0(0.00)	
Not significantly different from isononane 0 mg/kg					

Clinical sign of offspring
Generation : F1

Test article Dose	Clinical signs	Species : Rat												
		Postnatal Day			/Before culling			/After culling						
		0	1	2	3	4	5	6	7	8	9	10	11	12
Isononane 0 mg/kg	Number of dams examined	10	10	10	10	10	10	10	10	10	10	10	10	10
Isononane 60 mg/kg	Number of offspring	129	129	129	129	129	129	80	80	80	80	80	80	80
Isononane 60 mg/kg	Number of dams with anomalous offspring	0	0	0	0	0	0	0	0	0	0	0	0	0
Isononane 250 mg/kg	Number of dams examined	12	12	12	12	12	12	12	12	12	12	12	12	12
Isononane 250 mg/kg	Number of offspring	158	158	158	158	158	91	91	91	91	91	91	91	91
Isononane 1000 mg/kg	Number of dams with anomalous offspring	0	0	0	0	0	0	0	0	0	0	0	0	0
Isononane 1000 mg/kg	Number of dams examined	12	12	12	12	11	11	11	11	11	11	11	11	11
Isononane 1000 mg/kg	Number of offspring	161	150	145	134	131	82	82	82	82	82	82	82	82
Isononane 1000 mg/kg	Number of dams with anomalous offspring	0	1	1	0	0	0	0	0	0	0	0	0	0
Isononane 1000 mg/kg	Milk-band negative	0	4	11	0	0	0	0	0	0	0	0	0	0

Clinical sign of offspring
Generation : F1

Test article Dose	Clinical signs			Species : Rat
	Postnatal Day	13	/After culling	
Isononane 0 mg/kg	Number of dams examined			
	Number of offspring	10		
	Number of dams with anomalous offspring	80		
	Number of offspring	0		
Isononane 60 mg/kg	Number of dams examined			
	Number of offspring	12		
	Number of dams with anomalous offspring	91		
	Number of offspring	0		
Isononane 250 mg/kg	Number of dams examined			
	Number of offspring	9		
	Number of dams with anomalous offspring	72		
	Number of offspring	0		
Isononane 1000 mg/kg	Number of dams examined			
	Number of offspring	11		
	Number of dams with anomalous offspring	82		
	Milk-band negative	0		
		0		

Litter size and viability index of offspring
Generation : F1
/Postnatal Day

Test article Dose	Species : Rat					
	0 All pups	0 Live pups	0 Viability index (%)	4 Live pups	4 Viability index (%)	4 Post-culled
Isononane 0 mg/kg	Total n Mean S.D.	130 10 99.17 2.62	129 10 99.17 2.62	129 10 100.00 0.00	80 10 100.00 0.00	80 10 100.00 0.00
Isononane 60 mg/kg	Total n Mean S.D.	160 12 98.88 2.61	158 12 98.88 2.61	158 12 100.00 0.00	91 12 100.00 0.00	91 12 100.00 0.00
Isononane 250 mg/kg	Total n Mean S.D.	140 10 88.00 31.08	120 10 88.00 31.08	120 9 100.00 0.00	72 9 100.00 0.00	72 9 100.00 0.00
Isononane 1000 mg/kg	Total n Mean S.D.	165 12 97.93 5.53	161 12 97.93 5.53	131 11 90.36 25.42	82 11 100.00 0.00	82 11 100.00 0.00

Not significantly different from Isononane 0 mg/kg

Test article Dose		Body weight of offspring Generation : F1						Unit : g	Species : Rat
		Postnatal Day							
		0		4		7		13	
Isononane	Male	n	10	10	10	10	10	10	
0 mg/kg	Mean	7.253	12.041	20.505	37.564				
	S.D.	0.745	1.615	1.650	2.236				
Isononane 60 mg/kg	Female	n	10	10	10	10	10	10	
	Mean	6.902	11.518	19.330	35.889				
	S.D.	0.725	1.673	1.850	2.440				
Isononane 250 mg/kg	Male	n	12	12	12	12	12	12	
	Mean	7.198	11.618	19.182	35.681				
	S.D.	0.805	1.799	1.588	2.318				
Isononane 1000 mg/kg	Female	n	12	12	12	12	12	12	
	Mean	6.831	10.841	18.087	33.885				
	S.D.	0.732	1.327	1.501	2.850				
Isononane 2000 mg/kg	Male	n	9	9	9	9	9	9	
	Mean	6.948	11.614	19.534	36.707				
	S.D.	0.729	1.774	1.788	1.895				
Isononane 4000 mg/kg	Female	n	9	9	9	9	9	9	
	Mean	6.671	11.012	18.892	35.444				
	S.D.	0.810	1.590	1.892	2.439				
Isononane 8000 mg/kg	Male	n	12	11	11	11	11	11	
	Mean	6.775	10.430	17.229	32.103				
	S.D.	0.879	2.292	3.450	4.510				
Isononane 16000 mg/kg	Female	n	12	10	10	10	10	10	
	Mean	6.292	9.946	16.472	31.160				
	S.D.	0.758	1.917	2.719	3.616				

Significantly different from Isononane 0 mg/kg: * P<0.05, ** P<0.01
DT : Dunnett test (two-side), ST : Steel test (two-side)

Table 23

Study No. : SR19180

Anogenital distance of offspring

Generation : F1

/Postnatal Day

4

Dose Test article		Sex	Unit : mm			Species : Rat
			Male	n	AGD	
Isononane 0 mg/kg				Mean	10	10
				S.D.	5.9128 0.5574	2.5835 0.1825
		Female	n	10	10	
			Mean	2.8523	1.2648	
			S.D.	0.2747	0.0732	
Isononane 60 mg/kg		Male	n	12	12	
			Mean	5.9287	2.6233	
			S.D.	0.4138	0.0721	
		Female	n	12	12	
			Mean	2.8043	1.2681	
			S.D.	0.2468	0.0704	
Isononane 250 mg/kg		Male	n	9	9	
			Mean	5.9009	2.6122	
			S.D.	0.3972	0.1139	
		Female	n	9	9	
			Mean	2.7947	1.2602	
			S.D.	0.1354	0.0654	
Isononane 1000 mg/kg		Male	n	11	11	
			Mean	5.8530	2.6903	
			S.D.	0.5592	0.1145	
		Female	n	10	10	
			Mean	2.7313	1.2769	
			S.D.	0.1211	0.0403	

AGD : Anogenital Distance

Not significantly different from Isononane 0 mg/kg

Table 24

Study No. : SR19180

		Nipple retention of male pups Generation : F1			Unit : No.	Species : Rat
Test article	Dose		/Postnatal Day			
Isononane	0 mg/kg	Male	n	10		
			Mean	0.00		
			S.D.	0.00		
Isononane	60 mg/kg	Male	n	12		
			Mean	0.00		
			S.D.	0.00		
Isononane	250 mg/kg	Male	n	9		
			Mean	0.00		
			S.D.	0.00		
Isononane	1000 mg/kg	Male	n	11		
			Mean	0.00		
			S.D.	0.00		

Not significantly different from Isononane 0 mg/kg

Table 25

Study No.: SR19180

Test article Dose	Serum T4 concentration of offspring			Species : Rat
	Sex : Female		T4(PND13)	
	ng/mL			
Isononane 0 mg/kg	n Mean S.D.	10 53.56 6.61		
Isononane 60 mg/kg	n Mean S.D.	12 52.34 6.68		
Isononane 250 mg/kg	n Mean S.D.	9 52.34 5.41		
Isononane 1000 mg/kg	n Mean S.D.	11 48.91 6.03		

Not significantly different from Isononane 0 mg/kg
PND : Postnatal Day

Table 26

Study No. : SR19180

Test article Dose	Necropsy findings of offspring Generation : F1	Isononane			Isononane 1000 mg/kg	Species : Rat
		0 mg/kg	60 mg/kg	250 mg/kg		
Number of dams		10 (10)	12 (12)	10 (9)	12 (11)	
Number of live offspring examined on postnatal Day 13		80	91	72	82	
Finding absent		80	91	72	82	
Number of dead offspring examined on postnatal Day 0-13		1	2	20	25	
Finding absent		1	2	20	25	

Number in parentheses is the number of surviving dams on lactation Day 13

Clinical sign
Sex : Male

Animal No.	Clinical signs	Period : Administration Day 1-29									
		Dose : Isononane 0 mg/kg		Day		Time		Day		Time	
		1	2	1	2	1	2	1	2	1	2
10101	No abnormality	-	-	-	-	-	-	-	-	-	-
10102	No abnormality	-	-	-	-	-	-	-	-	-	-
10103	No abnormality	-	-	-	-	-	-	-	-	-	-
10104	No abnormality	-	-	-	-	-	-	-	-	-	-
10105	No abnormality	-	-	-	-	-	-	-	-	-	-
10106	No abnormality	-	-	-	-	-	-	-	-	-	-
10107	No abnormality	-	-	-	-	-	-	-	-	-	-
10108	No abnormality	-	-	-	-	-	-	-	-	-	-
10109	No abnormality	-	-	-	-	-	-	-	-	-	-
10110	No abnormality	-	-	-	-	-	-	-	-	-	-
10111	No abnormality	-	-	-	-	-	-	-	-	-	-
10112	No abnormality	-	-	-	-	-	-	-	-	-	-

Animal No.	Clinical signs	Period : Administration Day 10-18									
		Day		Time		Day		Time		Day	
		10	11	12	13	14	15	16	17	18	
10101	No abnormality	-	-	-	-	-	-	-	-	-	-
10102	No abnormality	-	-	-	-	-	-	-	-	-	-
10103	No abnormality	-	-	-	-	-	-	-	-	-	-
10104	No abnormality	-	-	-	-	-	-	-	-	-	-
10105	No abnormality	-	-	-	-	-	-	-	-	-	-
10106	No abnormality	-	-	-	-	-	-	-	-	-	-
10107	No abnormality	-	-	-	-	-	-	-	-	-	-
10108	No abnormality	-	-	-	-	-	-	-	-	-	-
10109	No abnormality	-	-	-	-	-	-	-	-	-	-
10110	No abnormality	-	-	-	-	-	-	-	-	-	-
10111	No abnormality	-	-	-	-	-	-	-	-	-	-
10112	No abnormality	-	-	-	-	-	-	-	-	-	-

Animal No.	Clinical signs	Period : Administration Day 19-27									
		Day		Time		Day		Time		Day	
		19	20	21	22	23	24	25	26	27	
10101	No abnormality	-	-	-	-	-	-	-	-	-	-
10102	No abnormality	-	-	-	-	-	-	-	-	-	-
10103	No abnormality	-	-	-	-	-	-	-	-	-	-
10104	No abnormality	-	-	-	-	-	-	-	-	-	-
10105	No abnormality	-	-	-	-	-	-	-	-	-	-
10106	No abnormality	-	-	-	-	-	-	-	-	-	-
10107	No abnormality	-	-	-	-	-	-	-	-	-	-
10108	No abnormality	-	-	-	-	-	-	-	-	-	-
10109	No abnormality	-	-	-	-	-	-	-	-	-	-
10110	No abnormality	-	-	-	-	-	-	-	-	-	-
10111	No abnormality	-	-	-	-	-	-	-	-	-	-
10112	No abnormality	-	-	-	-	-	-	-	-	-	-

Administration)1 : Before dosing, 2 : After dosing

Appendix 1 - 2

Study No. : SR19180

Animal No.	Sex : Male	Clinical sign	Period : Administration Day 1-29			Species : Rat	
			Dose : Isononane 0 mg/kg				
			Day	Time	1 2 3		
10101		No abnormality	-	-	-		
10102		No abnormality	-	-	-		
10103		No abnormality	-	-	-		
10104		No abnormality	-	-	-		
10105		No abnormality	-	-	-		
10106		No abnormality	-	-	-		
10107		No abnormality	-	-	-		
10108		No abnormality	-	-	-		
10109		No abnormality	-	-	-		
10110		No abnormality	-	-	-		
10111		No abnormality	-	-	-		
10112		No abnormality	-	-	-		

Administration)1 : Before dosing, 2 : After dosing, 3 : Necropsy day

Clinical sign
Sex : Male

Animal No.	Clinical signs	Period : Administration Day 1-29									
		Dose : Isoniazide 60 mg/kg		Day		Time		Day		Time	
		1	2	1	2	1	2	1	2	1	2
10201	No abnormality	-	-	-	-	-	-	-	-	-	-
10202	No abnormality	-	-	-	-	-	-	-	-	-	-
10203	No abnormality	-	-	-	-	-	-	-	-	-	-
10204	No abnormality	-	-	-	-	-	-	-	-	-	-
10205	No abnormality	-	-	-	-	-	-	-	-	-	-
10206	No abnormality	-	-	-	-	-	-	-	-	-	-
10207	No abnormality	-	-	-	-	-	-	-	-	-	-
10208	No abnormality	-	-	-	-	-	-	-	-	-	-
10209	No abnormality	-	-	-	-	-	-	-	-	-	-
10210	No abnormality	-	-	-	-	-	-	-	-	-	-
10211	No abnormality	-	-	-	-	-	-	-	-	-	-
10212	No abnormality	-	-	-	-	-	-	-	-	-	-

Clinical signs

Animal No.	Clinical signs	Period : Administration Day 10-18									
		Day		Time		Day		Time		Day	
		10	11	12	13	14	15	16	17	18	
10201	No abnormality	-	-	-	-	-	-	-	-	-	-
10202	No abnormality	-	-	-	-	-	-	-	-	-	-
10203	No abnormality	-	-	-	-	-	-	-	-	-	-
10204	No abnormality	-	-	-	-	-	-	-	-	-	-
10205	No abnormality	-	-	-	-	-	-	-	-	-	-
10206	No abnormality	-	-	-	-	-	-	-	-	-	-
10207	No abnormality	-	-	-	-	-	-	-	-	-	-
10208	No abnormality	-	-	-	-	-	-	-	-	-	-
10209	No abnormality	-	-	-	-	-	-	-	-	-	-
10210	No abnormality	-	-	-	-	-	-	-	-	-	-
10211	No abnormality	-	-	-	-	-	-	-	-	-	-
10212	No abnormality	-	-	-	-	-	-	-	-	-	-

Clinical signs

Animal No.	Clinical signs	Period : Administration Day 19-27									
		Day		Time		Day		Time		Day	
		19	20	21	22	23	24	25	26	27	
10201	No abnormality	-	-	-	-	-	-	-	-	-	-
10202	No abnormality	-	-	-	-	-	-	-	-	-	-
10203	No abnormality	-	-	-	-	-	-	-	-	-	-
10204	No abnormality	-	-	-	-	-	-	-	-	-	-
10205	No abnormality	-	-	-	-	-	-	-	-	-	-
10206	No abnormality	-	-	-	-	-	-	-	-	-	-
10207	No abnormality	-	-	-	-	-	-	-	-	-	-
10208	No abnormality	-	-	-	-	-	-	-	-	-	-
10209	No abnormality	-	-	-	-	-	-	-	-	-	-
10210	No abnormality	-	-	-	-	-	-	-	-	-	-
10211	No abnormality	-	-	-	-	-	-	-	-	-	-
10212	No abnormality	-	-	-	-	-	-	-	-	-	-

Administration)1 : Before dosing, 2 : After dosing

Clinical sign
Sex : Male

Period : Administration Day 1-29
Dose : Isononane 60 mg/kg

Animal No.	Clinical signs	Day			Species : Rat
		28	1	2	
10201	No abnormality	-	-	-	
10202	No abnormality	-	-	-	
10203	No abnormality	-	-	-	
10204	No abnormality	-	-	-	
10205	No abnormality	-	-	-	
10206	No abnormality	-	-	-	
10207	No abnormality	-	-	-	
10208	No abnormality	-	-	-	
10209	No abnormality	-	-	-	
10210	No abnormality	-	-	-	
10211	No abnormality	-	-	-	
10212	No abnormality	-	-	-	

Administration)1 : Before dosing, 2 : After dosing, 3 : Necropsy day

Clinical sign
Sex : Male

Animal No.	Clinical signs	Period : Administration Day 1-29									
		Dose : Isononane 250 mg/kg		Day		Time		Day		Time	
		1	2	1	2	1	2	1	2	1	2
10301	No abnormality	-	-	-	-	-	-	-	-	-	-
10302	No abnormality	-	-	-	-	-	-	-	-	-	-
10303	No abnormality	-	-	-	-	-	-	-	-	-	-
10304	No abnormality	-	-	-	-	-	-	-	-	-	-
10305	No abnormality	-	-	-	-	-	-	-	-	-	-
10306	No abnormality	-	-	-	-	-	-	-	-	-	-
10307	No abnormality	-	-	-	-	-	-	-	-	-	-
10308	No abnormality	-	-	-	-	-	-	-	-	-	-
10309	No abnormality	-	-	-	-	-	-	-	-	-	-
10310	No abnormality	-	-	-	-	-	-	-	-	-	-
10311	No abnormality	-	-	-	-	-	-	-	-	-	-
10312	No abnormality	-	-	-	-	-	-	-	-	-	-

Animal No.	Clinical signs	Period : Administration Day 10-18									
		Day		Time		Day		Time		Day	
		1	2	1	2	1	2	1	2	1	2
10301	No abnormality	-	-	-	-	-	-	-	-	-	-
10302	No abnormality	-	-	-	-	-	-	-	-	-	-
10303	No abnormality	-	-	-	-	-	-	-	-	-	-
10304	No abnormality	-	-	-	-	-	-	-	-	-	-
10305	No abnormality	-	-	-	-	-	-	-	-	-	-
10306	No abnormality	-	-	-	-	-	-	-	-	-	-
10307	No abnormality	-	-	-	-	-	-	-	-	-	-
10308	No abnormality	-	-	-	-	-	-	-	-	-	-
10309	No abnormality	-	-	-	-	-	-	-	-	-	-
10310	No abnormality	-	-	-	-	-	-	-	-	-	-
10311	No abnormality	-	-	-	-	-	-	-	-	-	-
10312	No abnormality	-	-	-	-	-	-	-	-	-	-

Animal No.	Clinical signs	Period : Administration Day 19-27									
		Day		Time		Day		Time		Day	
		1	2	1	2	1	2	1	2	1	2
10301	No abnormality	-	-	-	-	-	-	-	-	-	-
10302	No abnormality	-	-	-	-	-	-	-	-	-	-
10303	No abnormality	-	-	-	-	-	-	-	-	-	-
10304	No abnormality	-	-	-	-	-	-	-	-	-	-
10305	No abnormality	-	-	-	-	-	-	-	-	-	-
10306	No abnormality	-	-	-	-	-	-	-	-	-	-
10307	No abnormality	-	-	-	-	-	-	-	-	-	-
10308	No abnormality	-	-	-	-	-	-	-	-	-	-
10309	No abnormality	-	-	-	-	-	-	-	-	-	-
10310	No abnormality	-	-	-	-	-	-	-	-	-	-
10311	No abnormality	-	-	-	-	-	-	-	-	-	-
10312	No abnormality	-	-	-	-	-	-	-	-	-	-

Administration)1 : Before dosing, 2 : After dosing

Clinical sign
Sex : Male

Period : Administration Day 1-29
Dose : Isononane 250 mg/kg

Animal No.	Clinical signs	Day			Species : Rat
		28	29	Time	
10301	No abnormality	-	-	-	
10302	No abnormality	-	-	-	
10303	No abnormality	-	-	-	
10304	No abnormality	-	-	-	
10305	No abnormality	-	-	-	
10306	No abnormality	-	-	-	
10307	No abnormality	-	-	-	
10308	No abnormality	-	-	-	
10309	No abnormality	-	-	-	
10310	No abnormality	-	-	-	
10311	No abnormality	-	-	-	
10312	No abnormality	-	-	-	

Administration)1 : Before dosing, 2 : After dosing, 3 : Necropsy day

Clinical sign
Sex : Male

Animal No.	Clinical signs	Period : Administration Day 1-29									
		Dose : Isoniazide 1000 mg/kg		Day		Time		Day		Time	
		1	2	1	2	1	2	1	2	1	2
10401	No abnormality	-	-	-	-	-	-	-	-	-	-
10402	No abnormality	-	-	-	-	-	-	-	-	-	-
10403	No abnormality	-	-	-	-	-	-	-	-	-	-
10404	No abnormality	-	-	-	-	-	-	-	-	-	-
10405	No abnormality	-	-	-	-	-	-	-	-	-	-
10406	No abnormality	-	-	-	-	-	-	-	-	-	-
10407	No abnormality	-	-	-	-	-	-	-	-	-	-
10408	No abnormality	-	-	-	-	-	-	-	-	-	-
10409	No abnormality	-	-	-	-	-	-	-	-	-	-
10410	No abnormality	-	-	-	-	-	-	-	-	-	-
10411	No abnormality	-	-	-	-	-	-	-	-	-	-
10412	Soil of perigenital fur	-	-	-	-	-	-	-	-	-	-

Animal No.	Clinical signs	Period : Administration Day 10-18									
		Day		Time		Day		Time		Day	
		1	2	1	2	1	2	1	2	1	2
10401	No abnormality	-	-	-	-	-	-	-	-	-	-
10402	No abnormality	-	-	-	-	-	-	-	-	-	-
10403	No abnormality	-	-	-	-	-	-	-	-	-	-
10404	No abnormality	-	-	-	-	-	-	-	-	-	-
10405	No abnormality	-	-	-	-	-	-	-	-	-	-
10406	No abnormality	-	-	-	-	-	-	-	-	-	-
10407	No abnormality	-	-	-	-	-	-	-	-	-	-
10408	No abnormality	-	-	-	-	-	-	-	-	-	-
10409	No abnormality	-	-	-	-	-	-	-	-	-	-
10410	No abnormality	-	-	-	-	-	-	-	-	-	-
10411	No abnormality	-	-	-	-	-	-	-	-	-	-
10412	Soil of perigenital fur	-	-	-	-	-	-	-	-	-	-

Animal No.	Clinical signs	Period : Administration Day 19-27									
		Day		Time		Day		Time		Day	
		1	2	1	2	1	2	1	2	1	2
10401	No abnormality	-	-	-	-	-	-	-	-	-	-
10402	No abnormality	-	-	-	-	-	-	-	-	-	-
10403	No abnormality	-	-	-	-	-	-	-	-	-	-
10404	No abnormality	-	-	-	-	-	-	-	-	-	-
10405	No abnormality	-	-	-	-	-	-	-	-	-	-
10406	No abnormality	-	-	-	-	-	-	-	-	-	-
10407	No abnormality	-	-	-	-	-	-	-	-	-	-
10408	No abnormality	-	-	-	-	-	-	-	-	-	-
10409	No abnormality	-	-	-	-	-	-	-	-	-	-
10410	No abnormality	-	-	-	-	-	-	-	-	-	-
10411	No abnormality	-	-	-	-	-	-	-	-	-	-
10412	Soil of perigenital fur	-	-	-	-	-	-	-	-	-	-

Administration)1 : Before dosing, 2 : After dosing

Animal No.	Sex : Male	Clinical sign	Period : Administration Day 1-29			Species : Rat	
			Dose : Isononane 1000 mg/kg				
			Day	Time	1 2 3		
10401		No abnormality	-	-	-		
10402		No abnormality	-	-	-		
10403		No abnormality	-	-	-		
10404		No abnormality	-	-	-		
10405		No abnormality	-	-	-		
10406		No abnormality	-	-	-		
10407		No abnormality	-	-	-		
10408		No abnormality	-	-	-		
10409		No abnormality	-	-	-		
10410		No abnormality	-	-	-		
10411		No abnormality	-	-	-		
10412		Soot of perigenital fur	-	-	-		

(Administration)1 : Before dosing, 2 : After dosing, 3 : Necropsy day

Animal No.	Sex : Female	Clinical sign	Period : F0 Day 1-52										Species : Rat					
			Dose : Isononane 0 mg/kg		Day		Time		Day		Time			Day		Time		
			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50151	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50152	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50153	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50154	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50155	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50156	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50157	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50158	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50159	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50160	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50161	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50162	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
 F0)1 : Before dosing, 2 : After dosing																		
Animal No.	Sex : Female	Clinical sign	Period : F0 Day 1-52										Species : Rat					
			Dose : Isononane 0 mg/kg		Day		Time		Day		Time			Day		Time		
			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50151	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50152	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50153	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50154	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50155	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50156	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50157	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50158	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50159	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50160	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50161	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50162	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
 F0)2 : Before dosing, 2 : After dosing																		
Animal No.	Sex : Female	Clinical sign	Period : F0 Day 1-52										Species : Rat					
			Dose : Isononane 0 mg/kg		Day		Time		Day		Time			Day		Time		
			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50151	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50152	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50153	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50154	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50155	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50156	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50157	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50158	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50159	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50160	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50161	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50162	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Animal No.	Sex : Female	Clinical sign	Period : F0 Day 1-52												Species : Rat											
			Dose : Isoniazide 0 mg/kg			Day 28			Day 29			Day 30			Day 31			Day 32			Day 33			Day 34		
			Day	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50151	No abnormality	Clinical signs																								
50152	No abnormality																									
50153	No abnormality																									
50154	No abnormality																									
50155	No abnormality																									
50156	No abnormality																									
50157	No abnormality																									
50158	No abnormality																									
50159	No abnormality																									
50160	No abnormality																									
50161	No abnormality																									
50162	No abnormality																									
Animal No.	Sex : Female	Clinical sign	Day 37			Day 38			Day 39			Day 40			Day 41			Day 42			Day 43			Day 44		
			Day	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50151	No abnormality	Clinical signs																								
50152	No abnormality																									
50153	No abnormality																									
50154	No abnormality																									
50155	No abnormality																									
50156	No abnormality																									
50157	No abnormality																									
50158	No abnormality																									
50159	No abnormality																									
50160	No abnormality																									
50161	No abnormality																									
50162	No abnormality																									
Animal No.	Sex : Female	Clinical sign	Day 45			Day 46			Day 47			Day 48			Day 49			Day 50			Day 51			Day 52		
			Day	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50151	No abnormality	Clinical signs																								
50152	No abnormality																									
50153	No abnormality																									
50154	No abnormality																									
50155	No abnormality																									
50156	No abnormality																									
50157	No abnormality																									
50158	No abnormality																									
50159	No abnormality																									
50160	No abnormality																									
50161	No abnormality																									
50162	No abnormality																									

F011 : Before dosing, 2 : After dosing, 3 : Necropsy day

Animal No.	Sex : Female	Clinical sign	Period : F0 gestation Day 0-26												Species : Rat					
			Dose : Isononane 0 mg/kg		Day 0		Day 1		Day 2		Day 3		Day 4		Day 5		Day 6			
		Clinical signs	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
50151	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50152	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50153	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50155	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50156	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50157	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50158	Decrease in locomotor activity Tachypnea		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50159	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50160	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50161	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50162	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			Day	9	10	11	12	13	14	15	16	17								
		Clinical signs	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
50151	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50152	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50153	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50155	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50156	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50157	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50158	Decrease in locomotor activity Tachypnea		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50159	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50160	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50161	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50162	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			Day	18	19	20	21	22	23	24	25	26								
		Clinical signs	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
50151	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50152	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50153	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50155	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50156	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50157	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50158	Decrease in locomotor activity Tachypnea		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50159	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50160	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50161	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
50162	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

F0 gestation)1 : Before dosing, 2 : After dosing, 3 : Necropsy day
 Animal No. 50158 : Euthanized on gestation Day 23 because of abnormal delivery (dystocia)
 ... : Blank

Animal No.	Sex : Female	Clinical sign	Period : F0 lactation Day 0-14														
			Dose : Isononane 0 mg/kg		Species : Rat												
			Day	Time	0	1	2	1	2	1	2	1	2	1	2	1	2
50151	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50152	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50153	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50155	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50156	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50157	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50159	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50160	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50161	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50162	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Animal No.	Sex : Female	Clinical sign	Period : F0 lactation Day 9-14														
			Dose : Isononane 0 mg/kg		Species : Rat												
			Day	Time	9	10	11	12	13	14	1	2	1	2	1	2	
50151	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50152	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50153	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50155	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50156	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50157	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50159	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50160	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50161	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50162	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

F0 lactation)1 : Before dosing, 2 : After dosing, 3 : Necropsy day

Animal No.	Sex : Female	Clinical sign	Period : F0 Day 1-52												Species : Rat		
			Dose : Isononane 60 mg/kg		Day		Time		Day		Time		Day		Time		
			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
50251	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50252	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50253	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50254	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50255	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50256	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50257	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50258	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50259	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50260	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50261	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50262	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
 Day 10																	
Time 1																	
50251	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50252	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50253	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50254	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50255	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50256	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50257	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50258	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50259	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50260	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50261	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50262	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
 Day 19																	
Time 1																	
50251	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50252	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50253	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50254	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50255	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50256	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50257	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50258	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50259	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50260	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50261	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50262	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

F0)1 : Before dosing, 2 : After dosing

Animal No.	Sex : Female	Clinical sign	Period : F0 Day 1-52												Species : Rat											
			Dose : Isoniazide 60 mg/kg			Day 28			Day 29			Day 30			Day 31			Day 32			Day 33			Day 34		
			Day	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50251	No abnormality	Clinical signs																								
50252	No abnormality																									
50253	No abnormality																									
50254	No abnormality																									
50255	No abnormality																									
50256	No abnormality																									
50257	No abnormality																									
50258	No abnormality																									
50259	No abnormality																									
50260	No abnormality																									
50261	No abnormality																									
50262	No abnormality																									
Animal No.	Sex : Female	Clinical sign	Day 37			Day 38			Day 39			Day 40			Day 41			Day 42			Day 43			Day 44		
			Day	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50251	No abnormality	Clinical signs																								
50252	No abnormality																									
50253	No abnormality																									
50254	No abnormality																									
50255	No abnormality																									
50256	No abnormality																									
50257	No abnormality																									
50258	No abnormality																									
50259	No abnormality																									
50260	No abnormality																									
50261	No abnormality																									
50262	No abnormality																									
Animal No.	Sex : Female	Clinical sign	Day 45			Day 46			Day 47			Day 48			Day 49			Day 50			Day 51			Day 52		
			Day	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50251	No abnormality	Clinical signs																								
50252	No abnormality																									
50253	No abnormality																									
50254	No abnormality																									
50255	No abnormality																									
50256	No abnormality																									
50257	No abnormality																									
50258	No abnormality																									
50259	No abnormality																									
50260	No abnormality																									
50261	No abnormality																									
50262	No abnormality																									

F01) : Before dosing, 2 : After dosing, 3 : Necropsy day

Clinical sign
Sex : Female

Animal No.	Clinical signs	Period : F0 gestation Day 0-26							
		Dose : Isoniazide 60 mg/kg		Day 0		Day 1		Day 2	
		Time	1	2	1	2	1	2	1
50251	No abnormality	-	-	-	-	-	-	-	-
50252	No abnormality	-	-	-	-	-	-	-	-
50253	No abnormality	-	-	-	-	-	-	-	-
50254	No abnormality	-	-	-	-	-	-	-	-
50255	No abnormality	-	-	-	-	-	-	-	-
50256	No abnormality	-	-	-	-	-	-	-	-
50257	No abnormality	-	-	-	-	-	-	-	-
50258	No abnormality	-	-	-	-	-	-	-	-
50259	No abnormality	-	-	-	-	-	-	-	-
50260	No abnormality	-	-	-	-	-	-	-	-
50261	No abnormality	-	-	-	-	-	-	-	-
50262	No abnormality	-	-	-	-	-	-	-	-

Clinical signs

Animal No.	Clinical signs	Day 9-17							
		Day 9		Day 10		Day 11		Day 12	
		Time	1	2	1	2	1	2	1
50251	No abnormality	-	-	-	-	-	-	-	-
50252	No abnormality	-	-	-	-	-	-	-	-
50253	No abnormality	-	-	-	-	-	-	-	-
50254	No abnormality	-	-	-	-	-	-	-	-
50255	No abnormality	-	-	-	-	-	-	-	-
50256	No abnormality	-	-	-	-	-	-	-	-
50257	No abnormality	-	-	-	-	-	-	-	-
50258	No abnormality	-	-	-	-	-	-	-	-
50259	No abnormality	-	-	-	-	-	-	-	-
50260	No abnormality	-	-	-	-	-	-	-	-
50261	No abnormality	-	-	-	-	-	-	-	-
50262	No abnormality	-	-	-	-	-	-	-	-

Clinical signs

Animal No.	Clinical signs	Day 18-26							
		Day 18		Day 19		Day 20		Day 21	
		Time	1	2	1	2	1	2	1
50251	No abnormality	-	-	-	-	-	-	-	-
50252	No abnormality	-	-	-	-	-	-	-	-
50253	No abnormality	-	-	-	-	-	-	-	-
50254	No abnormality	-	-	-	-	-	-	-	-
50255	No abnormality	-	-	-	-	-	-	-	-
50256	No abnormality	-	-	-	-	-	-	-	-
50257	No abnormality	-	-	-	-	-	-	-	-
50258	No abnormality	-	-	-	-	-	-	-	-
50259	No abnormality	-	-	-	-	-	-	-	-
50260	No abnormality	-	-	-	-	-	-	-	-
50261	No abnormality	-	-	-	-	-	-	-	-
50262	No abnormality	-	-	-	-	-	-	-	-

F0 gestation)1 : Before dosing, 2 : After dosing, 3 : Necropsy day

Clinical sign
Sex : Female

Animal No.	Clinical signs	Period : F0 lactation Day 0-14								Species : Rat		
		Dose : Isononane 60 mg/kg		Day 0		Day 1		Day 2				
		Time	1	2	1	2	1	2	1	2	1	2
50251	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50252	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50253	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50254	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50255	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50256	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50257	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50258	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50259	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50260	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50261	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50262	No abnormality	-	-	-	-	-	-	-	-	-	-	-

Clinical sign
Sex : Female

Animal No.	Clinical signs	Period : F0 lactation Day 9-14								Species : Rat		
		Day 9		Day 10		Day 11		Day 12				
		Time	1	2	1	2	1	2	1	2	1	2
50251	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50252	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50253	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50254	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50255	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50256	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50257	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50258	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50259	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50260	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50261	No abnormality	-	-	-	-	-	-	-	-	-	-	-
50262	No abnormality	-	-	-	-	-	-	-	-	-	-	-

F0 lactation)1 : Before dosing, 2 : After dosing, 3 : Necropsy day

Animal No.	Sex : Female	Clinical sign	Period : F0 Day 1-52												Species : Rat																				
			Dose : Isononane 250 mg/kg		Day		Time		Day		Time		Day																						
			1	2	1	2	1	2	1	2	1	2	1	2	1	2																			
50351	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
50352	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
50353	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
50354	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
50355	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
50356	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
50357	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
50358	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
50359	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
50360	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
50361	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
50362	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-																			
Animal No.		Clinical signs	Day		10		11		12		13		14		15		16		17		18														
50351	No abnormality		Time		1		2		1		2		1		2		1		2		1														
50352	No abnormality		-		-		-		-		-		-		-		-		-		-														
50353	No abnormality		-		-		-		-		-		-		-		-		-		-														
50354	No abnormality		-		-		-		-		-		-		-		-		-		-														
50355	No abnormality		-		-		-		-		-		-		-		-		-		-														
50356	No abnormality		-		-		-		-		-		-		-		-		-		-														
50357	No abnormality		-		-		-		-		-		-		-		-		-		-														
50358	No abnormality		-		-		-		-		-		-		-		-		-		-														
50359	No abnormality		-		-		-		-		-		-		-		-		-		-														
50360	No abnormality		-		-		-		-		-		-		-		-		-		-														
50361	No abnormality		-		-		-		-		-		-		-		-		-		-														
50362	No abnormality		-		-		-		-		-		-		-		-		-		-														
																-		-		-		-													
Animal No.		Clinical signs	Day		19		20		21		22		23		24		25		26		27														
50351	No abnormality		Time		1		2		1		2		1		2		1		2		1														
50352	No abnormality		-		-		-		-		-		-		-		-		-		-														
50353	No abnormality		-		-		-		-		-		-		-		-		-		-														
50354	No abnormality		-		-		-		-		-		-		-		-		-		-														
50355	No abnormality		-		-		-		-		-		-		-		-		-		-														
50356	No abnormality		-		-		-		-		-		-		-		-		-		-														
50357	No abnormality		-		-		-		-		-		-		-		-		-		-														
50358	No abnormality		-		-		-		-		-		-		-		-		-		-														
50359	No abnormality		-		-		-		-		-		-		-		-		-		-														
50360	No abnormality		-		-		-		-		-		-		-		-		-		-														
50361	No abnormality		-		-		-		-		-		-		-		-		-		-														
50362	No abnormality		-		-		-		-		-		-		-		-		-		-														
																-		-		-		-													
F0)1	: Before dosing, 2 : After dosing															-		-		-		-													

Animal No.	Sex : Female	Clinical sign	Period : F0 Day 1-52												Species : Rat											
			Dose : Isoniazide 250 mg/kg			Day 28			Day 29			Day 30			Day 31			Day 32			Day 33			Day 34		
			Day	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50351	No abnormality	Clinical signs																								
50352	No abnormality																									
50353	No abnormality																									
50354	No abnormality																									
50355	No abnormality																									
50356	No abnormality																									
50357	No abnormality																									
50358	No abnormality																									
50359	No abnormality																									
50360	No abnormality																									
50361	No abnormality																									
50362	No abnormality																									
Animal No.	Sex : Female	Clinical sign	Day 37			Day 38			Day 39			Day 40			Day 41			Day 42			Day 43			Day 44		
			Day	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
			50351	No abnormality																						
50352	No abnormality																									
50353	No abnormality																									
50354	No abnormality																									
50355	No abnormality																									
50356	No abnormality																									
50357	No abnormality																									
50358	No abnormality																									
50359	No abnormality																									
50360	No abnormality																									
50361	No abnormality																									
50362	No abnormality																									
Animal No.	Sex : Female	Clinical sign	Day 45			Day 46			Day 47			Day 48			Day 49			Day 50			Day 51			Day 52		
			Day	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50351	No abnormality																									
50352	No abnormality																									
50353	No abnormality																									
50354	No abnormality																									
50355	No abnormality																									
50356	No abnormality																									
50357	No abnormality																									
50358	No abnormality																									
50359	No abnormality																									
50360	No abnormality																									
50361	No abnormality																									
50362	No abnormality																									

F01) : Before dosing, 2 : After dosing, 3 : Necropsy day

Animal No.	Sex : Female	Clinical sign	Period : F0 gestation Day 0-26												Species : Rat	
			Dose : Isononane 250 mg/kg		Day 0		Day 1		Day 2		Day 3		Day 4			
			Day	Time	1	2	1	2	1	2	1	2	1	2		
50351	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	8	
50352	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	2	
50353	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50354	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50356	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50357	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50358	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50359	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50360	No abnormality		\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	
50361	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50362	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
Animal No.	Sex : Female	Clinical sign	Period : F0 gestation Day 9-17												Species : Rat	
			Dose : Isononane 250 mg/kg		Day 9		Day 10		Day 11		Day 12		Day 13			
			Day	Time	1	2	1	2	1	2	1	2	1	2		
50351	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	2	
50352	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50353	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50354	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50356	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50357	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50358	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50359	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50360	No abnormality		\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	
50361	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50362	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
Animal No.	Sex : Female	Clinical sign	Period : F0 gestation Day 18-26												Species : Rat	
			Dose : Isononane 250 mg/kg		Day 18		Day 19		Day 20		Day 21		Day 22			
			Day	Time	1	2	1	2	1	2	1	2	1	2		
50351	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	3	
50352	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50353	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50354	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50356	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50357	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50358	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50359	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50360	No abnormality		\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	
50361	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	
50362	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	

F0 gestation)1 : Before dosing, 2 : After dosing, 3 : Necropsy day

Animal No. 50360 : Non-pregnancy

\$: Excepted data from calculation

Animal No.	Sex : Female	Clinical sign	Period : F0 lactation Day 0-14												Species : Rat				
			Dose : Isononane 250 mg/kg		Day 0		1		2		3		4		5		6		
			Day	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50351	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50352	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50353	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50354	Soil of perigenital fur		+
	Soil of perianal fur		+
50356	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50357	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50358	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50359	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50361	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50362	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Animal No.	Sex : Female	Clinical signs	Day 9-14												Species : Rat				
			Day	Time	9	10	11	12	13	14									
			Time	1	2	1	2	1	2	1	2	1	2	1	2				
50351	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-				
50352	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-				
50353	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-				
50354	Soil of perigenital fur		...	...	...	...	...	...	...	...	...	...	...	...	...
	Soil of perianal fur		...	...	...	...	...	...	...	...	...	...	...	...	...
50356	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-				
50357	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-				
50358	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-				
50359	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-				
50361	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-				
50362	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-				

F0 lactation)1 : Before dosing, 2 : After dosing, 3 : Necropsy day

Animal No. 50354 : Euthanized on lactation Day 0 because of abnormal delivery (stillbirth)

... : Blank

Animal No.	Sex : Female	Clinical sign	Period : F0 Day 1-52												Species : Rat		
			Dose : Isoniazide 1000 mg/kg		Day		Time		Day		Time		Day		Time		
		Clinical signs	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
50451	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50452	Soil of perigenital fur		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50453	Soil of perigenital fur		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50454	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50455	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50456	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50457	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50458	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50459	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50460	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50461	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50462	Soil of perioral fur		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Soil of perigenital fur		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Animal No.		Clinical signs	Day 10-18												Species : Rat		
			Day	10	11	12	13	14	15	16	17	18					
		Clinical signs	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50451	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50452	Soil of perigenital fur		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50453	Soil of perigenital fur		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50454	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50455	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50456	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50457	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50458	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50459	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50460	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50461	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50462	Soil of perioral fur		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
	Soil of perigenital fur		+	+	-	-	-	-	-	-	-	-	-	-	-	-	-
Animal No.		Clinical signs	Day 19-27												Species : Rat		
			Day	19	20	21	22	23	24	25	26	27					
		Clinical signs	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50451	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50452	Soil of perigenital fur		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50453	Soil of perigenital fur		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50454	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50455	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50456	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50457	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50458	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50459	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50460	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50461	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50462	Soil of perioral fur		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Soil of perigenital fur		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

F0)1 : Before dosing, 2 : After dosing

Clinical sign		Period : F0 Day 1-52										Species : Rat				
Sex : Female		Dose : isononane 1000 mg/kg														
Animal No.	Clinical signs	Day 28					Day 29					Day 30				
		Time 1	2	1	2	1	2	1	2	1	2	31	32	33	34	35
50451	No abnormality											2	1	2	1	2
50452	Soil of perigenital fur											1	2	1	2	1
50453	Soil of perigenital fur											1	2	1	2	1
50454	No abnormality											1	2	1	2	1
50455	No abnormality											1	2	1	2	1
50456	No abnormality											1	2	1	2	1
50457	No abnormality											1	2	1	2	1
50458	No abnormality											1	2	1	2	1
50459	No abnormality											1	2	1	2	1
50460	No abnormality											1	2	1	2	1
50461	No abnormality											1	2	1	2	1
50462	Soil of perioral fur											1	2	1	2	1
Clinical sign		Day 37					Day 38					Day 39				
Animal No.	Clinical signs	Time 1					Time 2					Time 1				
		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
50451	No abnormality											1	2	1	2	1
50452	Soil of perigenital fur											1	2	1	2	1
50453	Soil of perigenital fur											1	2	1	2	1
50454	No abnormality											1	2	1	2	1
50455	No abnormality											1	2	1	2	1
50456	No abnormality											1	2	1	2	1
50457	No abnormality											1	2	1	2	1
50458	No abnormality											1	2	1	2	1
50459	No abnormality											1	2	1	2	1
50460	No abnormality											1	2	1	2	1
50461	No abnormality											1	2	1	2	1
50462	Soil of perioral fur											1	2	1	2	1
Clinical sign		Day 46					Day 47					Day 48				
Animal No.	Clinical signs	Time 1					Time 2					Time 1				
		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1
50451	No abnormality											1	2	1	2	1
50452	Soil of perigenital fur											1	2	1	2	1
50453	Soil of perigenital fur											1	2	1	2	1
50454	No abnormality											1	2	1	2	1
50455	No abnormality											1	2	1	2	1
50456	No abnormality											1	2	1	2	1
50457	No abnormality											1	2	1	2	1
50458	No abnormality											1	2	1	2	1
50459	No abnormality											1	2	1	2	1
50460	No abnormality											1	2	1	2	1
50461	No abnormality											1	2	1	2	1
50462	Soil of perigenital fur											1	2	1	2	1

F0)1 : Before dosing, 2 : After dosing, 3 : Necropsy day

Animal No.	Sex : Female	Clinical sign	Period : F0 gestation Day 0-26												Species : Rat		
			Dose : Isoniazide 1000 mg/kg		Day 0		Day 1		Day 2		Day 3		Day 4		Day 5		
			Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50451	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50452	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50453	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50454	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50455	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50456	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50457	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50458	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50459	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50460	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50461	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50462	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Animal No.	Sex : Female	Clinical sign	Day 9-17												Species : Rat		
			Time	1	2	1	2	1	2	1	2	1	2	1			
			Day	9	10	11	12	13	14	15	16	17	18	19			
50451	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50452	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50453	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50454	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50455	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50456	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50457	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50458	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50459	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50460	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50461	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50462	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Animal No.	Sex : Female	Clinical sign	Day 18-26												Species : Rat		
			Time	1	2	1	2	1	2	1	2	1	2	1			
			Day	18	19	20	21	22	23	24	25	26	27	28			
50451	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50452	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50453	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50454	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50455	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50456	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50457	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50458	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50459	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50460	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50461	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50462	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

F0 gestation)1 : Before dosing, 2 : After dosing, 3 : Necropsy day
MD : Missing data

Animal No.	Sex : Female	Clinical sign	Period : F0 lactation Day 0-14												Species : Rat		
			Dose : Isononane 1000 mg/kg														
			Day	Time	0	1	2	1	2	1	2	1	2	1	2	1	2
50451	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50452	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50453	Salivation		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50454	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
50455	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50456	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50457	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50458	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50459	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50460	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50461	Decrease in locomotor activity		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Bradyphnea		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50462	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Animal No.	Sex : Female	Clinical signs	Day 9-14												Species : Rat		
			Day	Time	9	10	11	12	13	14							
			Time	1	2	1	2	1	2	1	2	1	2	1	2	3	
50451	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50452	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50453	Salivation		-	+	-	+	-	+	-	-	-	-	-	-	-	-	-
50454	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50455	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50456	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50457	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50458	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50459	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50460	Decrease in locomotor activity		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50461	Bradyphnea		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50462	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

F0 lactation)1 : Before dosing, 2 : After dosing, 3 : Necropsy day

Animal No. 50461 : Euthanized on lactation Day 3 because of moribund condition

... : Blank

Clinical sign
Sex : Female (satellite)

Animal No.	Clinical signs	Period : Administration Day 1-29										Species : Rat							
		Dose : Isononane 0 mg/kg		Day		Time		Day		Time									
		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50551	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50552	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50553	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50554	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50555	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50556	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50557	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50558	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50559	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50560	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
 Day 10													18						
	Clinical signs																		
50551	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50552	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50553	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50554	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50555	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50556	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50557	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50558	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50559	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50560	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
 Day 19													27						
	Clinical signs																		
50551	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50552	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50553	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50554	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50555	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50556	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50557	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50558	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50559	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50560	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Administration)1 : Before dosing, 2 : After dosing

Clinical sign
Sex : Female (satellite)

Animal No.	Clinical signs	Period : Administration Day 1-29			Species : Rat
		Dose : Isononane 0 mg/kg	Day 28	Day 29	
		Time	1	2	3
50551	No abnormality	-	-	-	
50552	No abnormality	-	-	-	
50553	No abnormality	-	-	-	
50554	No abnormality	-	-	-	
50555	No abnormality	-	-	-	
50556	No abnormality	-	-	-	
50557	No abnormality	-	-	-	
50558	No abnormality	-	-	-	
50559	No abnormality	-	-	-	
50560	No abnormality	-	-	-	

Administration)1 : Before dosing, 2 : After dosing, 3 : Necropsy day

Clinical sign
Sex : Female (satellite)

Animal No.	Clinical signs	Period : Administration Day 1-29									
		Dose : Isononane 1000 mg/kg		Day		Time		Day		Time	
		1	2	1	2	1	2	1	2	1	2
50651	No abnormality	-	-	-	-	-	-	-	-	-	-
50652	Decrease in locomotor activity	-	-	-	-	-	-	-	-	-	-
	Bradynea	-	-	-	-	-	-	-	-	-	-
	Soil of perigenital fur	-	-	-	-	-	-	-	-	-	-
50653	No abnormality	-	-	-	-	-	-	-	-	-	-
50654	No abnormality	-	-	-	-	-	-	-	-	-	-
50655	No abnormality	-	-	-	-	-	-	-	-	-	-
50656	No abnormality	-	-	-	-	-	-	-	-	-	-
50657	No abnormality	-	-	-	-	-	-	-	-	-	-
50658	No abnormality	-	-	-	-	-	-	-	-	-	-
50659	No abnormality	-	-	-	-	-	-	-	-	-	-
50660	No abnormality	-	-	-	-	-	-	-	-	-	-

Clinical signs

Animal No.	Clinical signs	Period : Administration Day 10-18									
		Day		Time		Day		Time		Day	
		10	11	12	13	14	15	16	17	18	
50651	No abnormality	-	-	-	-	-	-	-	-	-	-
50652	Decrease in locomotor activity	-	-	-	-	-	-	-	-	-	-
	Bradynea	-	-	-	-	-	-	-	-	-	-
	Soil of perigenital fur	-	-	-	-	-	-	-	-	-	-
50653	No abnormality	-	-	-	-	-	-	-	-	-	-
50654	No abnormality	-	-	-	-	-	-	-	-	-	-
50655	No abnormality	-	-	-	-	-	-	-	-	-	-
50656	No abnormality	-	-	-	-	-	-	-	-	-	-
50657	No abnormality	-	-	-	-	-	-	-	-	-	-
50658	No abnormality	-	-	-	-	-	-	-	-	-	-
50659	No abnormality	-	-	-	-	-	-	-	-	-	-
50660	No abnormality	-	-	-	-	-	-	-	-	-	-

Administration)1 : Before dosing, 2 : After dosing
 Animal No. 50652 : Euthanized on Day 7 because of moribund condition
 ... : Blank

Animal No.	Clinical sign Sex : Female (satellite)	Period : Administration Day 1-29			Species : Rat	
		Dose : Isononane 1000 mg/kg				
		Day	Time	1		
50651	No abnormality	-	-	-		
50652	Decrease in locomotor activity Bradypnea Soil of perigenital fur	28	1	2	3	
50653	No abnormality	29	...	...
50654	No abnormality	...	...	...
50655	No abnormality	...	...	...
50656	No abnormality	...	...	...
50657	No abnormality	...	...	...
50658	No abnormality	...	...	...
50659	No abnormality	...	...	...
50660	No abnormality	...	...	...

Administration)1 : Before dosing, 2 : After dosing, 3 : Necropsy day

Animal No. 50652 : Euthanized on Day 7 because of moribund condition
... : Blank

Animal No.	Sex : Male	Clinical sign	Period : Recovery Day 1-15												Species : Rat				
			Dose : Isononane 0 mg/kg			Day 1			Day 2			Day 3			Day 4				
			Day	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2	
10101	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10105	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10108	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10109	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10112	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
 Recovery)1 : AM, 2 : PM, 3 : Necropsy day																			
Animal No.	Sex : Male	Clinical sign	Day 10			Day 11			Day 12			Day 13			Day 14			Day 15	
			Day	Time	1	2	1	2	1	2	1	2	1	2	1	2	1	2	3
			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10101	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10105	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10108	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10109	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10112	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Animal No.	Sex : Male	Clinical sign	Period : Recovery Day 1-15											
			Dose : Isononane 1000 mg/kg			Species : Rat								
			Day	1	2	3	4	5	6	7	8	9	10	11
10401	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-
10405	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-
10407	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-
10409	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-
10412	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-
 Recovery)1 : AM, 2 : PM, 3 : Necropsy day														
Animal No.	Sex : Male	Clinical sign	Period : Recovery Day 1-15											
			Day	10	11	12	13	14	15					
			Time	1	2	1	2	1	2	1	2	1	2	3
10401	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-
10405	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-
10407	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-
10409	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-
10412	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-

Animal No.	Sex : Female (satellite)	Clinical sign	Period : Recovery Day 1-15												Species : Rat			
			Dose : Isononane 0 mg/kg			Day			Day			Day			Species : Rat			
			1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
50556	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50557	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50558	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50559	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50560	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
 Recovery)1 : AM, 2 : PM, 3 : Necropsy day																		
 Day																		
 Time																		
50556	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50557	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50558	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50559	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50560	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Animal No.	Sex : Female (satellite)	Clinical sign	Period : Recovery Day 1-15											
			Dose : Isononane 1000 mg/kg			Species : Rat								
			Day	1	2	3	4	5	6	7	8	9		
50656	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-
50657	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-
50658	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-
50659	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-
50660	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-
 Recovery)1 : AM, 2 : PM, 3 : Necropsy day														
Animal No.	Sex : Female (satellite)	Clinical sign	Period : Recovery Day 1-15											
			Dose : Isononane 1000 mg/kg			Species : Rat								
			Day	10	11	12	13	14	15					
50656	No abnormality	Clinical signs	-	-	-	-	-	-	-	-	-	-	-	-
50657	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-
50658	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-
50659	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-
50660	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Pre Dose : isonanate 0 mg/kg		Stage : Pre Dose : isonanate 0 mg/kg		Species : Rat
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Rolling	Repetitive circling	Self biting			
10101	1	1	1	1	0	0	0	0	1
10102	1	1	1	1	0	0	0	0	1
10103	1	1	1	1	0	0	0	0	1
10104	1	1	1	1	0	0	0	0	1
10105	1	1	1	1	0	0	0	0	1
10106	1	1	1	1	0	0	0	0	1
10107	1	1	1	1	0	0	0	0	1
10108	1	1	1	1	0	0	0	0	1
10109	1	1	1	1	0	0	0	0	1
10110	1	1	1	1	0	0	0	0	1
10111	1	1	1	1	0	0	0	0	1
10112	1	1	1	1	0	0	0	0	1
n	12	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Pre Dose : isononane 60 mg/kg		Stage : isononane 60 mg/kg		Species : Rat Self biting
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Rolling	Repetitive circling				
10201	1	1	1	1	0	0	0	0	1
10202	1	1	1	1	0	0	0	0	1
10203	1	1	1	1	0	0	0	0	1
10204	1	1	1	1	0	0	0	0	1
10205	1	1	1	1	0	0	0	0	1
10206	1	1	1	1	0	0	0	0	1
10207	1	1	1	1	0	0	0	0	1
10208	1	1	1	1	0	0	0	0	1
10209	1	1	1	1	0	0	0	0	1
10210	1	1	1	1	0	0	0	0	1
10211	1	1	1	1	0	0	0	0	1
10212	1	1	1	1	0	0	0	0	1
n	12	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Pre Dose : isonanate 250 mg/kg		Stage : Pre Dose : isonanate 250 mg/kg		Species : Rat
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Rolling	Repetitive circling	Self biting			
10301	1	1	1	0	0	0	0	0	1
10302	1	1	1	0	0	0	0	0	1
10303	1	1	1	0	0	0	0	0	1
10304	1	1	1	0	0	0	0	0	1
10305	1	1	1	0	0	0	0	0	1
10306	1	1	1	0	0	0	0	0	1
10307	1	1	1	0	0	0	0	0	1
10308	1	1	1	0	0	0	0	0	1
10309	1	1	1	0	0	0	0	0	1
10310	1	1	1	0	0	0	0	0	1
10311	1	1	1	0	0	0	0	0	1
10312	1	1	1	0	0	0	0	0	1
n	12	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Pre Dose : isononane 1000 mg/kg		Stage : Pre Dose : isononane 1000 mg/kg		Species : Rat Self biting
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Rolling	Repetitive circling				
10401	1	1	1	1	0	0	0	0	1
10402	1	1	1	1	0	0	0	0	1
10403	1	1	1	1	0	0	0	0	1
10404	1	1	1	1	0	0	0	0	1
10405	1	1	1	1	0	0	0	0	1
10406	1	1	1	1	0	0	0	0	1
10407	1	1	1	1	0	0	0	0	1
10408	1	1	1	1	0	0	0	0	1
10409	1	1	1	1	0	0	0	0	1
10410	1	1	1	1	0	0	0	0	1
10411	1	1	1	1	0	0	0	0	1
10412	1	1	1	1	0	0	0	0	1
n	12	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Day 7	
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 0 mg/kg	Rolling	Repetitive circling
10101	1	1	1	1	0	0
10102	1	1	1	0	0	1
10103	1	1	1	0	0	1
10104	1	1	1	0	0	1
10105	1	1	1	0	0	1
10106	1	1	1	0	0	1
10107	1	1	1	0	0	1
10108	1	1	1	0	0	1
10109	1	1	1	0	0	1
10110	1	1	1	0	0	1
10111	1	1	1	0	0	1
10112	1	1	1	0	0	1
n	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Day 7		Species : Rat
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 60 mg/kg	Rolling	Repetitive circling	
10201	1	1	1	1	0	0	1
10202	1	1	1	0	0	0	1
10203	1	1	1	0	0	0	1
10204	1	1	1	0	0	0	1
10205	1	1	1	0	0	0	1
10206	1	1	1	0	0	0	1
10207	1	1	1	0	0	0	1
10208	1	1	1	0	0	0	1
10209	1	1	1	0	0	0	1
10210	1	1	1	0	0	0	1
10211	1	1	1	0	0	0	1
10212	1	1	1	0	0	0	1
n	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male			Stage : Day 7			Species : Rat
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isoniazide 250 mg/kg	Rolling	Repetitive circling	
10301	1	1	1	0	0	0	1
10302	1	1	1	0	0	0	1
10303	1	1	1	0	0	0	1
10304	1	1	1	0	0	0	1
10305	1	1	1	0	0	0	1
10306	1	1	1	0	0	0	1
10307	1	1	1	0	0	0	1
10308	1	1	1	0	0	0	1
10309	1	1	1	0	0	0	1
10310	1	1	1	0	0	0	1
10311	1	1	1	0	0	0	1
10312	1	1	1	0	0	0	1
n	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Day 7		Species : Rat	
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 1000 mg/kg	Rolling	Repetitive circling	Self biting	
10401	1	1	1	0	0	0	0	1
10402	1	1	1	0	0	0	0	1
10403	1	1	1	0	0	0	0	1
10404	1	1	1	0	0	0	0	1
10405	1	1	1	0	0	0	0	1
10406	1	1	1	0	0	0	0	1
10407	1	1	1	0	0	0	0	1
10408	1	1	1	0	0	0	0	1
10409	1	1	1	0	0	0	0	1
10410	1	1	1	0	0	0	0	1
10411	1	1	1	0	0	0	0	1
10412	1	1	1	0	0	0	0	1
n	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Day 14	
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 0 mg/kg	Rolling	Repetitive circling
10101	1	1	1	0	0	0
10102	1	1	1	0	0	1
10103	1	1	1	0	0	1
10104	1	1	1	0	0	1
10105	1	1	1	0	0	1
10106	1	1	1	0	0	1
10107	1	1	1	0	0	1
10108	1	1	1	0	0	1
10109	1	1	1	0	0	1
10110	1	1	1	0	0	1
10111	1	1	1	0	0	1
10112	1	1	1	0	0	1
n	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Day 14		Species : Rat
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isoniazide 60 mg/kg	Rolling	Repetitive circling	
10201	1	1	1	0	0	0	1
10202	1	1	1	0	0	0	1
10203	1	1	1	0	0	0	1
10204	1	1	1	0	0	0	1
10205	1	1	1	0	0	0	1
10206	1	1	1	0	0	0	1
10207	1	1	1	0	0	0	1
10208	1	1	1	0	0	0	1
10209	1	1	1	0	0	0	1
10210	1	1	1	0	0	0	1
10211	1	1	1	0	0	0	1
10212	1	1	1	0	0	0	1
n	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Day 14		Species : Rat	
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isoniazide 250 mg/kg	Rolling	Repetitive circling	Self biting	
10301	1	1	1	0	0	0	0	1
10302	1	1	1	0	0	0	0	1
10303	1	1	1	0	0	0	0	1
10304	1	1	1	0	0	0	0	1
10305	1	1	1	0	0	0	0	1
10306	1	1	1	0	0	0	0	1
10307	1	1	1	0	0	0	0	1
10308	1	1	1	0	0	0	0	1
10309	1	1	1	0	0	0	0	1
10310	1	1	1	0	0	0	0	1
10311	1	1	1	0	0	0	0	1
10312	1	1	1	0	0	0	0	1
n	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male			Stage : Day 14			Species : Rat
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 1000 mg/kg	Rolling	Repetitive circling	
10401	1	1	1	0	0	0	1
10402	1	1	1	0	0	0	1
10403	1	1	1	0	0	0	1
10404	1	1	1	0	0	0	1
10405	1	1	1	0	0	0	1
10406	1	1	1	0	0	0	1
10407	1	1	1	0	0	0	1
10408	1	1	1	0	0	0	1
10409	1	1	1	0	0	0	1
10410	1	1	1	0	0	0	1
10411	1	1	1	0	0	0	1
10412	1	1	1	0	0	0	1
n	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Day 21		Species : Rat	
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 0 mg/kg	Rolling	Repetitive circling	Self biting	
10101	1	1	1	0	0	0	0	1
10102	1	1	1	0	0	0	0	1
10103	1	1	1	0	0	0	0	1
10104	1	1	1	0	0	0	0	1
10105	1	1	1	0	0	0	0	1
10106	1	1	1	0	0	0	0	1
10107	1	1	1	0	0	0	0	1
10108	1	1	1	0	0	0	0	1
10109	1	1	1	0	0	0	0	1
10110	1	1	1	0	0	0	0	1
10111	1	1	1	0	0	0	0	1
10112	1	1	1	0	0	0	0	1
n	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Day 21		Species : Rat	
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 60 mg/kg	Rolling	Repetitive circling	Self biting	
10201	1	1	1	0	0	0	0	1
10202	1	1	1	0	0	0	0	1
10203	1	1	1	0	0	0	0	1
10204	1	1	1	0	0	0	0	1
10205	1	1	1	0	0	0	0	1
10206	1	1	1	0	0	0	0	1
10207	1	1	1	0	0	0	0	1
10208	1	1	1	0	0	0	0	1
10209	1	1	1	0	0	0	0	1
10210	1	1	1	0	0	0	0	1
10211	1	1	1	0	0	0	0	1
10212	1	1	1	0	0	0	0	1
n	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Day 21		Species : Rat	
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isoniazide 250 mg/kg	Rolling	Repetitive circling	Self biting	
10301	1	1	1	0	0	0	0	1
10302	1	1	1	0	0	0	0	1
10303	1	1	1	0	0	0	0	1
10304	1	1	1	0	0	0	0	1
10305	1	1	1	0	0	0	0	1
10306	1	1	1	0	0	0	0	1
10307	1	1	1	0	0	0	0	1
10308	1	1	1	0	0	0	0	1
10309	1	1	1	0	0	0	0	1
10310	1	1	1	0	0	0	0	1
10311	1	1	1	0	0	0	0	1
10312	1	1	1	0	0	0	0	1
n	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Day 21		Species : Rat	
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 1000 mg/kg	Rolling	Repetitive circling	Self biting	
10401	1	1	1	0	0	0	0	1
10402	1	1	1	0	0	0	0	1
10403	1	1	1	0	0	0	0	1
10404	1	1	1	0	0	0	0	1
10405	1	1	1	0	0	0	0	1
10406	1	1	1	0	0	0	0	1
10407	1	1	1	0	0	0	0	1
10408	1	1	1	0	0	0	0	1
10409	1	1	1	0	0	0	0	1
10410	1	1	1	0	0	0	0	1
10411	1	1	1	0	0	0	0	1
10412	1	1	1	0	0	0	0	1
n	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male			Stage : Day 28			Species : Rat
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 0 mg/kg	Rolling	Repetitive circling	
10101	1	1	1	0	0	0	1
10102	1	1	1	0	0	0	1
10103	1	1	1	0	0	0	1
10104	1	1	1	0	0	0	1
10105	1	1	1	0	0	0	1
10106	1	1	1	0	0	0	1
10107	1	1	1	0	0	0	1
10108	1	1	1	0	0	0	1
10109	1	1	1	0	0	0	1
10110	1	1	1	0	0	0	1
10111	1	1	1	0	0	0	1
10112	1	1	1	0	0	0	1
n	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Day 28		Species : Rat	
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 60 mg/kg	Rolling	Repetitive circling	Self biting	
10201	1	1	1	0	0	0	0	1
10202	1	1	1	0	0	0	0	1
10203	1	1	1	0	0	0	0	1
10204	1	1	1	0	0	0	0	1
10205	1	1	1	0	0	0	0	1
10206	1	1	1	0	0	0	0	1
10207	1	1	1	0	0	0	0	1
10208	1	1	1	0	0	0	0	1
10209	1	1	1	0	0	0	0	1
10210	1	1	1	0	0	0	0	1
10211	1	1	1	0	0	0	0	1
10212	1	1	1	0	0	0	0	1
n	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Day 28		Species : Rat	
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isoniazide 250 mg/kg	Rolling	Repetitive circling	Self biting	
10301	1	1	1	0	0	0	0	1
10302	1	1	1	0	0	0	0	1
10303	1	1	1	0	0	0	0	1
10304	1	1	1	0	0	0	0	1
10305	1	1	1	0	0	0	0	1
10306	1	1	1	0	0	0	0	1
10307	1	1	1	0	0	0	0	1
10308	1	1	1	0	0	0	0	1
10309	1	1	1	0	0	0	0	1
10310	1	1	1	0	0	0	0	1
10311	1	1	1	0	0	0	0	1
10312	1	1	1	0	0	0	0	1
n	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Frequently.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Male		Detailed clinical observation (in the cage)		Stage : Day 28		Species : Rat	
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 1000 mg/kg	Rolling	Repetitive circling	Self biting	
10401	1	1	1	0	0	0	0	1
10402	1	1	1	0	0	0	0	1
10403	1	1	1	0	0	0	0	1
10404	1	1	1	0	0	0	0	1
10405	1	1	1	0	0	0	0	1
10406	1	1	1	0	0	0	0	1
10407	1	1	1	0	0	0	0	1
10408	1	1	1	0	0	0	0	1
10409	1	1	1	0	0	0	0	1
10410	1	1	1	0	0	0	0	1
10411	1	1	1	0	0	0	0	1
10412	1	1	1	0	0	0	0	1
n	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Pre Dose : isonanate 0 mg/kg			Stage : Pre Dose : isonanate 0 mg/kg			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Rolling	Repetitive circling	Self biting	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Rolling	Repetitive circling	Self biting
50151	1	1	1	1	0	0	1	1	1	0	0	1
50152	1	1	1	1	0	0	1	1	1	0	0	1
50153	1	1	1	1	0	0	1	1	1	0	0	1
50154	1	1	1	1	0	0	1	1	1	0	0	1
50155	1	1	1	1	0	0	1	1	1	0	0	1
50156	1	1	1	1	0	0	1	1	1	0	0	1
50157	1	1	1	1	0	0	1	1	1	0	0	1
50158	1	1	1	1	0	0	1	1	1	0	0	1
50159	1	1	1	1	0	0	1	1	1	0	0	1
50160	1	1	1	1	0	0	1	1	1	0	0	1
50161	1	1	1	1	0	0	1	1	1	0	0	1
50162	1	1	1	1	0	0	1	1	1	0	0	1
n	12	12	12	12	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Frequently.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Pre Dose : isononane 60 mg/kg			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Rolling	Repetitive circling	Self biting			
50251	1	1	1	1	0	0			
50252	1	1	1	0	0	1			
50253	1	1	1	0	0	1			
50254	1	1	1	0	0	1			
50255	1	1	1	0	0	1			
50256	1	1	1	0	0	1			
50257	1	1	1	0	0	1			
50258	1	1	1	0	0	1			
50259	1	1	1	0	0	1			
50260	1	1	1	0	0	1			
50261	1	1	1	0	0	1			
50262	1	1	1	0	0	1			
n	12	12	12	12	12	12			

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Pre Dose : isoniazide 250 mg/kg			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Rolling	Repetitive circling	Self biting			
50351	1	1	1	1	0	0			
50352	1	1	1	0	0	1			
50353	1	1	1	0	0	1			
50354	1	1	1	0	0	1			
50355	1	1	1	0	0	1			
50356	1	1	1	0	0	1			
50357	1	1	1	0	0	1			
50358	1	1	1	0	0	1			
50359	1	1	1	0	0	1			
50360	1	1	1	0	0	1			
50361	1	1	1	0	0	1			
50362	1	1	1	0	0	1			
n	12	12	12	12	12	12			

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Pre Dose : isononane 1000 mg/kg			Stage : Pre Dose : isononane 1000 mg/kg			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Rolling	Repetitive circling	Self biting	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Rolling	Repetitive circling	Self biting
50451	1	1	1	1	0	0	1	1	1	0	0	1
50452	1	1	1	1	0	0	1	1	1	0	0	1
50453	1	1	1	1	0	0	1	1	1	0	0	1
50454	1	1	1	1	0	0	1	1	1	0	0	1
50455	1	1	1	1	0	0	1	1	1	0	0	1
50456	1	1	1	1	0	0	1	1	1	0	0	1
50457	1	1	1	1	0	0	1	1	1	0	0	1
50458	1	1	1	1	0	0	1	1	1	0	0	1
50459	1	1	1	1	0	0	1	1	1	0	0	1
50460	1	1	1	1	0	0	1	1	1	0	0	1
50461	1	1	1	1	0	0	1	1	1	0	0	1
50462	1	1	1	1	0	0	1	1	1	0	0	1
n	12	12	12	12	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 7 Dose : isonanate 0 mg/kg			Species : Rat Self biting
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Rolling	Repetitive circling		
50151	1	1	1	1	0	0	1
50152	1	1	1	0	0	0	1
50153	1	1	1	0	0	0	1
50154	1	1	1	0	0	0	1
50155	1	1	1	0	0	0	1
50156	1	1	1	0	0	0	1
50157	1	1	1	0	0	0	1
50158	1	1	1	0	0	0	1
50159	1	1	1	0	0	0	1
50160	1	1	1	0	0	0	1
50161	1	1	1	0	0	0	1
50162	1	1	1	0	0	0	1
n	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 7 Dose : isonanate 60 mg/kg			Species : Rat
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Rolling	Repetitive circling	Self biting	
50251	1	1	1	1	0	0	1
50252	1	1	1	0	0	0	1
50253	1	1	1	0	0	0	1
50254	1	1	1	0	0	0	1
50255	1	1	1	0	0	0	1
50256	1	1	1	0	0	0	1
50257	1	1	1	0	0	0	1
50258	1	1	1	0	0	0	1
50259	1	1	1	0	0	0	1
50260	1	1	1	0	0	0	1
50261	1	1	1	0	0	0	1
50262	1	1	1	0	0	0	1
n	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 7 Dose : isonanate 250 mg/kg			Species : Rat
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Rolling	Repetitive circling	Self biting	
50351	1	1	1	0	0	0	1
50352	1	1	1	0	0	0	1
50353	1	1	1	0	0	0	1
50354	1	1	1	0	0	0	1
50355	1	1	1	0	0	0	1
50356	1	1	1	0	0	0	1
50357	1	1	1	0	0	0	1
50358	1	1	1	0	0	0	1
50359	1	1	1	0	0	0	1
50360	1	1	1	0	0	0	1
50361	1	1	1	0	0	0	1
50362	1	1	1	0	0	0	1
n	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 7 Dose : isonanate 1000 mg/kg			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Rolling	Repetitive circling	Self biting			
50451	1	1	1	1	0	0			
50452	1	1	1	0	0	1			
50453	1	1	1	0	0	1			
50454	1	1	1	0	0	1			
50455	1	1	1	0	0	1			
50456	1	1	1	0	0	1			
50457	1	1	1	0	0	1			
50458	1	1	1	0	0	1			
50459	1	1	1	0	0	1			
50460	1	1	1	0	0	1			
50461	1	1	1	0	0	1			
50462	1	1	1	0	0	1			
n	12	12	12	12	12	12			

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 14			Species : Rat
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 0 mg/kg	Rolling	Repetitive circling	
50151	1	1	1	0	0	0	1
50152	1	1	1	0	0	0	1
50153	1	1	1	0	0	0	1
50154	1	1	1	0	0	0	1
50155	1	1	1	0	0	0	1
50156	1	1	1	0	0	0	1
50157	1	1	1	0	0	0	1
50158	1	1	1	0	0	0	1
50159	1	1	1	0	0	0	1
50160	1	1	1	0	0	0	1
50161	1	1	1	0	0	0	1
50162	1	1	1	0	0	0	1
n	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 14			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 60 mg/kg	Rolling	Repetitive circling	Self biting		
50251	1	1	1	1	0	0	0	1	
50252	1	1	1	1	0	0	0	1	
50253	1	1	1	1	0	0	0	1	
50254	1	1	1	1	0	0	0	1	
50255	1	1	1	1	0	0	0	1	
50256	1	1	1	1	0	0	0	1	
50257	1	1	1	1	0	0	0	1	
50258	1	1	1	1	0	0	0	1	
50259	1	1	1	1	0	0	0	1	
50260	1	1	1	1	0	0	0	1	
50261	1	1	1	1	0	0	0	1	
50262	1	1	1	1	0	0	0	1	
n	12	12	12	12	12	12	12	12	

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 14			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isoniazide 250 mg/kg	Rolling	Repetitive circling	Self biting		
50351	1	1	1	1	0	0	0	1	1
50352	1	1	1	1	0	0	0	1	1
50353	1	1	1	1	0	0	0	1	1
50354	1	1	1	1	0	0	0	1	1
50355	1	1	1	1	0	0	0	1	1
50356	1	1	1	1	0	0	0	1	1
50357	1	1	1	1	0	0	0	1	1
50358	1	1	1	1	0	0	0	1	1
50359	1	1	1	1	0	0	0	1	1
50360	1	1	1	1	0	0	0	1	1
50361	1	1	1	1	0	0	0	1	1
50362	1	1	1	1	0	0	0	1	1
n	12	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 14			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 1000 mg/kg	Rolling	Repetitive circling	Self biting		
50451	1	1	1	0	0	0	0	1	1
50452	1	1	1	0	0	0	0	1	1
50453	1	1	1	0	0	0	0	1	1
50454	1	1	1	0	0	0	0	1	1
50455	1	1	1	0	0	0	0	1	1
50456	1	1	1	0	0	0	0	1	1
50457	1	1	1	0	0	0	0	1	1
50458	1	1	1	0	0	0	0	1	1
50459	1	1	1	0	0	0	0	1	1
50460	1	1	1	0	0	0	0	1	1
50461	1	1	1	0	0	0	0	1	1
50462	1	1	1	0	0	0	0	1	1
n	12	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 21			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 0 mg/kg	Rolling	Repetitive circling	Self biting		
50151	1	1	1	1	0	0	0	1	1
50152	1	1	1	1	0	0	0	1	1
50153	1	1	1	1	0	0	0	1	1
50154	1	1	1	1	0	0	0	1	1
50155	1	1	1	1	0	0	0	1	1
50156	1	1	1	1	0	0	0	1	1
50157	1	1	1	1	0	0	0	1	1
50158	1	1	1	1	0	0	0	1	1
50159	1	1	1	1	0	0	0	1	1
50160	1	1	1	1	0	0	0	1	1
50161	1	1	1	1	0	0	0	1	1
50162	1	1	1	1	0	0	0	1	1
n	12	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 21			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 60 mg/kg	Rolling	Repetitive circling	Self biting		
50251	1	1	1	1	0	0	0	1	1
50252	1	1	1	1	0	0	0	1	1
50253	1	1	1	1	0	0	0	1	1
50254	1	1	1	1	0	0	0	1	1
50255	1	1	1	1	0	0	0	1	1
50256	1	1	1	1	0	0	0	1	1
50257	1	1	1	1	0	0	0	1	1
50258	1	1	1	1	0	0	0	1	1
50259	1	1	1	1	0	0	0	1	1
50260	1	1	1	1	0	0	0	1	1
50261	1	1	1	1	0	0	0	1	1
50262	1	1	1	1	0	0	0	1	1
n	12	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 21 Dose : isonanate 250 mg/kg			Stage : Day 21 Dose : isonanate 250 mg/kg			Species : Rat
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Rolling	Repetitive circling	Self biting				
50351	1	1	1	1	0	0	0	0	0	1
50352	1	1	1	1	0	0	0	0	0	1
50353	1	1	1	1	0	0	0	0	0	1
50354	1	1	1	1	0	0	0	0	0	1
50355	1	1	1	1	0	0	0	0	0	1
50356	1	1	1	1	0	0	0	0	0	1
50357	1	1	1	1	0	0	0	0	0	1
50358	1	1	1	1	0	0	0	0	0	1
50359	1	1	1	1	0	0	0	0	0	1
50360	1	1	1	1	0	0	0	0	0	1
50361	1	1	1	1	0	0	0	0	0	1
50362	1	1	1	1	0	0	0	0	0	1
n	12	12	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 21 Dose : isonanate 1000 mg/kg			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Rolling	Repetitive circling	Self biting			
50451	1	1	1	1	0	0			
50452	1	1	1	0	0	1			
50453	1	1	1	0	0	1			
50454	1	1	1	0	0	1			
50455	1	1	1	0	0	1			
50456	1	1	1	0	0	1			
50457	1	1	1	0	0	1			
50458	1	1	1	0	0	1			
50459	1	1	1	0	0	1			
50460	1	1	1	0	0	1			
50461	1	1	1	0	0	1			
50462	1	1	1	0	0	1			
n	12	12	12	12	12	12			

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 28			Species : Rat
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 0 mg/kg	Rolling	Repetitive circling	
50151	1	1	1	0	0	0	1
50152	1	1	1	0	0	0	1
50153	1	1	1	0	0	0	1
50154	1	1	1	0	0	0	1
50155	1	1	1	0	0	0	1
50156	1	1	1	0	0	0	1
50157	1	1	1	0	0	0	1
50158	1	1	1	0	0	0	1
50159	1	1	1	0	0	0	1
50160	1	1	1	0	0	0	1
50161	1	1	1	0	0	0	1
50162	1	1	1	0	0	0	1
n	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 28			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 60 mg/kg	Rolling	Repetitive circling	Self biting		
50251	1	1	1	1	0	0	0	1	
50252	1	1	1	1	0	0	0	1	
50253	1	1	1	1	0	0	0	1	
50254	1	1	1	1	0	0	0	1	
50255	1	1	1	1	0	0	0	1	
50256	1	1	1	1	0	0	0	1	
50257	1	1	1	1	0	0	0	1	
50258	1	1	1	1	0	0	0	1	
50259	1	1	1	1	0	0	0	1	
50260	1	1	1	1	0	0	0	1	
50261	1	1	1	1	0	0	0	1	
50262	1	1	1	1	0	0	0	1	
n	12	12	12	12	12	12	12	12	

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Frequently.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 28			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 250 mg/kg	Rolling	Repetitive circling	Self biting		
50351	1	1	1	1	0	0	0	1	
50352	1	1	1	1	0	0	0	1	
50353	1	1	1	1	0	0	0	1	
50354	1	1	1	1	0	0	0	1	
50355	1	1	1	1	0	0	0	1	
50356	1	1	1	1	0	0	0	1	
50357	1	1	1	1	0	0	0	1	
50358	1	1	1	1	0	0	0	1	
50359	1	1	1	1	0	0	0	1	
50360	1	1	1	1	0	0	0	1	
50361	1	1	1	1	0	0	0	1	
50362	1	1	1	1	0	0	0	1	
n	12	12	12	12	12	12	12	12	

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 28			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 1000 mg/kg	Rolling	Repetitive circling	Self biting		
50451	1	1	1	0	0	0	0	1	
50452	1	1	1	0	0	0	0	1	
50453	1	1	1	0	0	0	0	1	
50454	1	1	1	0	0	0	0	1	
50455	1	1	1	0	0	0	0	1	
50456	1	1	1	0	0	0	0	1	
50457	1	1	1	0	0	0	0	1	
50458	1	1	1	0	0	0	0	1	
50459	1	1	1	0	0	0	0	1	
50460	1	1	1	0	0	0	0	1	
50461	1	1	1	0	0	0	0	1	
50462	1	1	1	0	0	0	0	1	
n	12	12	12	12	12	12	12	12	

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 35			Species : Rat
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 0 mg/kg	Rolling	Repetitive circling	
50151	1	1	1	1	0	0	1
50152	1	1	1	1	0	0	1
50153	1	1	1	0	0	0	1
50154	1	1	1	0	0	0	1
50155	1	1	1	0	0	0	1
50156	1	1	1	0	0	0	1
50157	1	1	1	0	0	0	1
50158	1	1	1	0	0	0	1
50159	1	1	1	0	0	0	1
50160	1	1	1	0	0	0	1
50161	1	1	1	0	0	0	1
50162	1	1	1	0	0	0	1
n	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 35			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 60 mg/kg	Rolling	Repetitive circling	Self biting		
50251	1	1	1	1	0	0	0	1	
50252	1	1	1	1	0	0	0	1	
50253	1	1	1	1	0	0	0	1	
50254	1	1	1	1	0	0	0	1	
50255	1	1	1	1	0	0	0	1	
50256	1	1	1	1	0	0	0	1	
50257	1	1	1	1	0	0	0	1	
50258	1	1	1	1	0	0	0	1	
50259	1	1	1	1	0	0	0	1	
50260	1	1	1	1	0	0	0	1	
50261	1	1	1	1	0	0	0	1	
50262	1	1	1	1	0	0	0	1	
n	12	12	12	12	12	12	12	12	

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 35			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isoniazide 250 mg/kg	Rolling	Repetitive circling	Self biting		
50351	1	1	1	1	0	0	0	1	1
50352	1	1	1	1	0	0	0	1	1
50353	1	1	1	1	0	0	0	1	1
50354	1	1	1	1	0	0	0	1	1
50355	1	1	1	1	0	0	0	1	1
50356	1	1	1	1	0	0	0	1	1
50357	1	1	1	1	0	0	0	1	1
50358	1	1	1	1	0	0	0	1	1
50359	1	1	1	1	0	0	0	1	1
50360	1	1	1	1	0	0	0	1	1
50361	1	1	1	1	0	0	0	1	1
50362	1	1	1	1	0	0	0	1	1
n	12	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 35			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 1000 mg/kg	Rolling	Repetitive circling	Self biting		
50451	1	1	1	0	0	0	0	1	1
50452	1	1	1	0	0	0	0	1	1
50453	1	1	1	0	0	0	0	1	1
50454	1	1	1	0	0	0	0	1	1
50455	1	1	1	0	0	0	0	1	1
50456	1	1	1	0	0	0	0	1	1
50457	1	1	1	0	0	0	0	1	1
50458	1	1	1	0	0	0	0	1	1
50459	1	1	1	0	0	0	0	1	1
50460	1	1	1	0	0	0	0	1	1
50461	1	1	1	0	0	0	0	1	1
50462	1	1	1	0	0	0	0	1	1
n	12	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 42			Species : Rat
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 0 mg/kg	Rolling	Repetitive circling	
50151	1	1	1	0	0	0	1
50152	1	1	1	0	0	0	1
50153	1	1	1	0	0	0	1
50154	1	1	1	0	0	0	1
50155	1	1	1	0	0	0	1
50156	1	1	1	0	0	0	1
50157	1	1	1	0	0	0	1
50159	1	1	1	0	0	0	1
50160	1	1	1	0	0	0	1
50161	1	1	1	0	0	0	1
50162	1	1	1	0	0	0	1
n	11	11	11	11	11	11	11

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.

Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.

Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durably only the legs, 4;Clonic, systemic, 5;Tonic, systemic.

Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 42			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 60 mg/kg	Rolling	Repetitive circling	Self biting		
50251	1	1	1	1	0	0	0	1	1
50252	1	1	1	1	0	0	0	1	1
50253	1	1	1	1	0	0	0	1	1
50254	1	1	1	1	0	0	0	1	1
50255	1	1	1	1	0	0	0	1	1
50256	1	1	1	1	0	0	0	1	1
50257	1	1	1	1	0	0	0	1	1
50258	1	1	1	1	0	0	0	1	1
50259	1	1	1	1	0	0	0	1	1
50260	1	1	1	1	0	0	0	1	1
50261	1	1	1	1	0	0	0	1	1
50262	1	1	1	1	0	0	0	1	1
n	12	12	12	12	12	12	12	12	12

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 42			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 250 mg/kg	Rolling	Repetitive circling	Self biting		
50351	1	1	1	1	0	0	0	1	
50352	1	1	1	1	0	0	0	1	
50353	1	1	1	1	0	0	0	1	
50355	1	1	1	1	0	0	0	1	
50356	1	1	1	1	0	0	0	1	
50357	1	1	1	1	0	0	0	1	
50358	1	1	1	1	0	0	0	1	
50359	1	1	1	1	0	0	0	1	
50360	1	1	1	1	0	0	0	1	
50361	1	1	1	1	0	0	0	1	
50362	1	1	1	1	0	0	0	1	
n	11	11	11	11	11	11	11	11	

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.

Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.

Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durably only the legs, 4;Clonic, systemic, 5;Tonic, systemic.

Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 42			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 1000 mg/kg	Rolling	Repetitive circling	Self biting		
50451	1	1	1	0	0	0	0	1	
50452	1	1	1	0	0	0	0	1	
50453	1	1	1	0	0	0	0	1	
50454	1	1	1	0	0	0	0	1	
50455	1	1	1	0	0	0	0	1	
50456	1	1	1	0	0	0	0	1	
50457	1	1	1	0	0	0	0	1	
50458	1	1	1	0	0	0	0	1	
50459	1	1	1	0	0	0	0	1	
50460	1	1	1	0	0	0	0	1	
50461	1	1	1	0	0	0	0	1	
50462	1	1	1	0	0	0	0	1	
n	12	12	12	12	12	12	12	12	

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 49		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 0 mg/kg	Rolling	Repetitive circling
50151	1	1	1	0	0	0
50152	1	1	1	0	0	1
50153	1	1	1	0	0	1
50154	1	1	1	0	0	1
50155	1	1	1	0	0	1
50156	1	1	1	0	0	1
50157	1	1	1	0	0	1
50159	1	1	1	0	0	1
50160	1	1	1	0	0	1
50161	1	1	1	0	0	1
50162	1	1	1	0	0	1
n	11	11	11	11	11	11

Body position(Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.

Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.

Tremor(Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durably only the legs, 4;Clonic, systemic, 5;Tonic, systemic.

Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 49			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 60 mg/kg	Rolling	Repetitive circling	Self biting		
50251	1	1	1	1	0	0	0	1	
50252	1	1	1	1	0	0	0	1	
50253	1	1	1	1	0	0	0	1	
50254	1	1	1	1	0	0	0	1	
50255	1	1	1	1	0	0	0	1	
50256	1	1	1	1	0	0	0	1	
50257	1	1	1	1	0	0	0	1	
50258	1	1	1	1	0	0	0	1	
50259	1	1	1	1	0	0	0	1	
50260	1	1	1	1	0	0	0	1	
50261	1	1	1	1	0	0	0	1	
50262	1	1	1	1	0	0	0	1	
n	12	12	12	12	12	12	12	12	

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 49			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 250 mg/kg	Rolling	Repetitive circling	Self biting		
50351	1	1	1	0	0	0	0	1	
50352	1	1	1	0	0	0	0	1	
50353	1	1	1	0	0	0	0	1	
50355	1	1	1	0	0	0	0	1	
50356	1	1	1	0	0	0	0	1	
50357	1	1	1	0	0	0	0	1	
50358	1	1	1	0	0	0	0	1	
50359	1	1	1	0	0	0	0	1	
50361	1	1	1	0	0	0	0	1	
50362	1	1	1	0	0	0	0	1	
n	10	10	10	10	10	10	10	10	

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.

Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.

Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.

Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (in the cage)

Animal No.	Sex : Female			Stage : Day 49			Species : Rat		
	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : isonanate 1000 mg/kg	Rolling	Repetitive circling	Stereotype/Self biting		
50451	1	1	1	1	0	0	0	1	
50452	1	1	1	1	0	0	0	1	
50453	1	1	1	1	0	0	0	1	
50454	1	1	1	1	0	0	0	1	
50455	1	1	1	1	0	0	0	1	
50456	1	1	1	1	0	0	0	1	
50457	1	1	1	1	0	0	0	1	
50458	1	1	1	1	0	0	0	1	
50459	1	1	1	1	0	0	0	1	
50460	1	1	1	1	0	0	0	1	
50462	1	1	1	1	0	0	0	1	
n	11	11	11	11	11	11	11	11	

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.

Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.

Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durably only the legs, 4;Clonic, systemic, 5;Tonic, systemic.

Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Pre		
	Sex : Female (satellite)	Respiratory pattern	Tremor/Convulsion	Dose : Isoniazide 0 mg/kg	Repetitive circling	Species : Rat
Body position/ Posture			Rolling			
50551	1	1	1	0	0	1
50552	1	1	1	0	0	1
50553	1	1	1	0	0	1
50554	1	1	1	0	0	1
50555	1	1	1	0	0	1
50556	1	1	1	0	0	1
50557	1	1	1	0	0	1
50558	1	1	1	0	0	1
50559	1	1	1	0	0	1
50560	1	1	1	0	0	1
n	10	10	10	10	10	10

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.

Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.

Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.

Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.

Bizarre behavior(Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Pre		
	Sex : Female (satellite)	Respiratory pattern	Tremor/Convulsion	Dose : Isononane 1000 mg/kg	Repetitive circling	Species : Rat
Body position/ Posture			Rolling			
50651	1	1	1	0	0	1
50652	1	1	1	0	0	1
50653	1	1	1	0	0	1
50654	1	1	1	0	0	1
50655	1	1	1	0	0	1
50656	1	1	1	0	0	1
50657	1	1	1	0	0	1
50658	1	1	1	0	0	1
50659	1	1	1	0	0	1
50660	1	1	1	0	0	1
n	10	10	10	10	10	10

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior(Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Day 7		
	Sex : Female (satellite)	Respiratory pattern	Tremor/Convulsion	Dose : Isoniazide 0 mg/kg	Repetitive circling	Species : Rat
Body position/ Posture			Rolling			
50551	1	1	1	0	0	1
50552	1	1	1	0	0	1
50553	1	1	1	0	0	1
50554	1	1	1	0	0	1
50555	1	1	1	0	0	1
50556	1	1	1	0	0	1
50557	1	1	1	0	0	1
50558	1	1	1	0	0	1
50559	1	1	1	0	0	1
50560	1	1	1	0	0	1
n	10	10	10	10	10	10

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior(Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Day 7		
	Sex : Female (satellite)	Respiratory pattern	Tremor/Convulsion	Dose : Isoniazide 1000 mg/kg	Rolling	Repetitive circling
	Body position/ Posture					Species : Rat
50651	1	1	1	0	0	0
50653	1	1	1	0	0	1
50654	1	1	1	0	0	1
50655	1	1	1	0	0	1
50656	1	1	1	0	0	1
50657	1	1	1	0	0	1
50658	1	1	1	0	0	1
50659	1	1	1	0	0	1
50660	1	1	1	0	0	1
n	9	9	9	9	9	9

Body position(Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor(Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Chronic, systemic, 5;Tonic, systemic.
 Stereotype(Rolling) 0; Not present, 1;Sometimes, 2;Frequently
 Stereotype(Repetitive circling) 0; Not present, 1;Sometime, 2;Frequently.
 Bizarre behavior(Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Day 14		
	Sex : Female (satellite)	Respiratory pattern	Tremor/Convulsion	Dose : Isoniazide 0 mg/kg	Repetitive circling	Species : Rat
Body position/ Posture			Rolling			
50551	1	1	1	0	0	1
50552	1	1	1	0	0	1
50553	1	1	1	0	0	1
50554	1	1	1	0	0	1
50555	1	1	1	0	0	1
50556	1	1	1	0	0	1
50557	1	1	1	0	0	1
50558	1	1	1	0	0	1
50559	1	1	1	0	0	1
50560	1	1	1	0	0	1
n	10	10	10	10	10	10

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior(Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Day 14		
	Sex : Female (satellite)	Respiratory pattern	Tremor/Convulsion	Dose : Isoniazide 1000 mg/kg	Rolling	Repetitive circling
	Body position/ Posture					Species : Rat
50651	1	1	1	0	0	0
50653	1	1	1	0	0	1
50654	1	1	1	0	0	1
50655	1	1	1	0	0	1
50656	1	1	1	0	0	1
50657	1	1	1	0	0	1
50658	1	1	1	0	0	1
50659	1	1	1	0	0	1
50660	1	1	1	0	0	1
n	9	9	9	9	9	9

Body position(Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor(Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Chronic, systemic, 5;Tonic, systemic.
 Stereotype(Rolling) 0; Not present, 1;Sometimes, 2;Frequently
 Stereotype(Repetitive circling) 0; Not present, 1;Sometime, 2;Frequently.
 Bizarre behavior(Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Day 21		
	Sex : Female (satellite)	Respiratory pattern	Tremor/Convulsion	Dose : Isoniazide 0 mg/kg	Repetitive circling	Species : Rat
Body position/ Posture			Rolling			
50551	1	1	1	0	0	1
50552	1	1	1	0	0	1
50553	1	1	1	0	0	1
50554	1	1	1	0	0	1
50555	1	1	1	0	0	1
50556	1	1	1	0	0	1
50557	1	1	1	0	0	1
50558	1	1	1	0	0	1
50559	1	1	1	0	0	1
50560	1	1	1	0	0	1
n	10	10	10	10	10	10

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior(Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Day 21			Species : Rat		
	Sex : Female (satellite)	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : Isoniazide 1000 mg/kg Rolling	Repetitive circling	Self biting		
50651	1	1	1	1	0	0	0	1	1
50653	1	1	1	1	0	0	0	1	1
50654	1	1	1	1	0	0	0	1	1
50655	1	1	1	1	0	0	0	1	1
50656	1	1	1	1	0	0	0	1	1
50657	1	1	1	1	0	0	0	1	1
50658	1	1	1	1	0	0	0	1	1
50659	1	1	1	1	0	0	0	1	1
50660	1	1	1	1	0	0	0	1	1
n	9	9	9	9	9	9	9	9	9

Body position(Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor(Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Chronic, systemic, 5;Tonic, systemic.
 Stereotype(Rolling) 0; Not present, 1;Sometimes, 2;Frequently
 Stereotype(Repetitive circling) 0; Not present, 1;Sometimes, 2;Frequently.
 Bizarre behavior(Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Day 28		
	Sex : Female (satellite)	Respiratory pattern	Tremor/Convulsion	Dose : Isoniazide 0 mg/kg	Repetitive circling	Species : Rat
Body position/ Posture			Rolling			
50551	1	1	1	0	0	1
50552	1	1	1	0	0	1
50553	1	1	1	0	0	1
50554	1	1	1	0	0	1
50555	1	1	1	0	0	1
50556	1	1	1	0	0	1
50557	1	1	1	0	0	1
50558	1	1	1	0	0	1
50559	1	1	1	0	0	1
50560	1	1	1	0	0	1
n	10	10	10	10	10	10

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometimes, 2;Present.
 Bizarre behavior(Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Day 28			Species : Rat		
	Sex : Female (satellite)	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : Isoniazide 1000 mg/kg Rolling	Repetitive circling	Self biting		
50651	1	1	1	1	0	0	0	1	1
50653	1	1	1	1	0	0	0	1	1
50654	1	1	1	1	0	0	0	1	1
50655	1	1	1	1	0	0	0	1	1
50656	1	1	1	1	0	0	0	1	1
50657	1	1	1	1	0	0	0	1	1
50658	1	1	1	1	0	0	0	1	1
50659	1	1	1	1	0	0	0	1	1
50660	1	1	1	1	0	0	0	1	1
n	9	9	9	9	9	9	9	9	9

Body position(Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor(Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Chronic, systemic, 5;Tonic, systemic.
 Stereotype(Rolling) 0; Not present, 1;Sometimes, 2;Frequently
 Stereotype(Repetitive circling) 0; Not present, 1;Sometime, 2;Frequently.
 Bizarre behavior(Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Recovery Day 7		
	Sex : Male Posture	Respiratory pattern	Tremor/ Convulsion	Dose : Isononate 0 mg/kg Rolling	Repetitive circling	Species : Rat Self biting
10101	1	1	1	0	0	1
10105	1	1	1	0	0	1
10108	1	1	1	0	0	1
10109	1	1	1	0	0	1
10112	1	1	1	0	0	1
n	5	5	5	5	5	5

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometime, 2;Frequently.
 Bizarre behavior(Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Recovery Day 7		
	Sex : Male Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : Isononane 1000 mg/kg Rolling	Repetitive circling	Species : Rat Self biting
10401	1	1	1	0	0	1
10405	1	1	1	0	0	1
10407	1	1	1	0	0	1
10409	1	1	1	0	0	1
10412	1	1	1	0	0	1
n	5	5	5	5	5	5

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometime, 2;Frequently.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Recovery Day 14		
	Sex : Male Posture	Respiratory pattern	Tremor/ Convulsion	Dose : Isononate 0 mg/kg Rolling	Repetitive circling	Species : Rat Self biting
10101	1	1	1	0	0	1
10105	1	1	1	0	0	1
10108	1	1	1	0	0	1
10109	1	1	1	0	0	1
10112	1	1	1	0	0	1
n	5	5	5	5	5	5

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometime, 2;Frequently.
 Bizarre behavior(Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Recovery Day 14		
	Sex : Male	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : Isononane 1000 mg/kg	Repetitive circling
10401	1	1	1	1	0	0
10405	1	1	1	1	0	1
10407	1	1	1	0	0	1
10409	1	1	1	0	0	1
10412	1	1	1	0	0	1
n	5	5	5	5	5	5

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometime, 2;Frequently.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Recovery Day 7		
	Sex : Female (satellite)	Respiratory pattern	Tremor/Convulsion	Dose : Isononate 0 mg/kg	Repetitive circling	Species : Rat
Body position/ Posture						
50556	1	1	1	0	0	1
50557	1	1	1	0	0	1
50558	1	1	1	0	0	1
50559	1	1	1	0	0	1
50560	1	1	1	0	0	1
n	5	5	5	5	5	5

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometime, 2;Frequently.
 Bizarre behavior(Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Recovery Day 7		
	Sex : Female (satellite)	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : Isononane 1000 mg/kg	Repetitive circling
50656	1	1	1	1	0	0
50657	1	1	1	1	0	0
50658	1	1	1	0	0	1
50659	1	1	1	0	0	1
50660	1	1	1	0	0	1
n	5	5	5	5	5	5

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometime, 2;Frequently.
 Bizarre behavior(Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Recovery Day 14			
	Sex : Female (satellite)	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : Isononate 0 mg/kg Rolling	Repetitive circling	Species : Rat Self biting
50556	1	1	1	1	0	0	1
50557	1	1	1	1	0	0	1
50558	1	1	1	1	0	0	1
50559	1	1	1	1	0	0	1
50560	1	1	1	1	0	0	1
n	5	5	5	5	5	5	5

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0; Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometime, 2;Frequently.
 Bizarre behavior(Self biting) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the cage)			Stage : Recovery Day 14		
	Sex : Female (satellite)	Body position/ Posture	Respiratory pattern	Tremor/ Convulsion	Dose : Isononane 1000 mg/kg	Repetitive circling
50656	1	1	1	1	0	0
50657	1	1	1	1	0	0
50658	1	1	1	0	0	1
50659	1	1	1	0	0	1
50660	1	1	1	0	0	1
n	5	5	5	5	5	5

Body position/Posture) 1;Normal (sitting, etc.), 2;Sleeping, 3;Crouching, 4;Prone, lateral, 5;Standing, jumping, 6;Cataleptic.
 Respiratory pattern) 1;Normal, 2;Slightly abnormal, rapid or slow, 3;Moderately abnormal, difficult to breath, 4;Severe abnormal, labored, 5;Dyspnea.
 Tremor/Convulsion) 1;Not present, 2;Irregularly only the legs, 3;Durable only the legs, 4;Clonic, systemic, 5;Tonic, systemic.
 Stereotype/Rolling) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Repetitive circling) 0;Not present, 1;Sometime, 2;Frequently.
 Bizarre behavior/Self biting) 1;Not present, 2;Present.

Detailed clinical observation (on the hand)

	Sex : Male	Ease of Removal		Ease of Handling		Muscle tone		Stage : Pre Dose : isononane 0 mg/kg		Stage : Pre Dose : isononane 0 mg/kg	
Animal No.								Piloerection	Fur	Eyes	Mucous membranes
10101	1	1	1	2	2	1	1	1	1	0	1
10102	1	1	1	2	2	1	1	1	1	0	1
10103	1	1	1	2	2	1	1	1	1	0	1
10104	1	1	1	2	2	1	1	1	1	0	1
10105	1	1	1	2	2	1	1	1	1	0	1
10106	1	1	1	2	2	1	1	1	1	0	1
10107	1	1	1	2	2	1	1	1	1	0	1
10108	1	1	1	2	2	1	1	1	1	0	1
10109	1	1	1	2	2	1	1	1	1	0	1
10110	1	1	1	2	2	1	1	1	1	0	1
10111	1	1	1	2	2	1	1	1	1	0	1
10112	1	1	1	2	2	1	1	1	1	0	1
n		12	12	12	12	12	12		12	12	12

	Detailed clinical observation (on the hand)		Stage : Pre Dose : isononane 0 mg/kg		Stage : Pre Dose : isononane 0 mg/kg		Species : Rat		Species : Rat		
Animal No.	Sex	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
10101	1	1	1	2	2	1	1	1	1	0	1
10102	1	1	1	2	2	1	1	1	1	0	1
10103	1	1	1	2	2	1	1	1	1	0	1
10104	1	1	1	2	2	1	1	1	1	0	1
10105	1	1	1	2	2	1	1	1	1	0	1
10106	1	1	1	2	2	1	1	1	1	0	1
10107	1	1	1	2	2	1	1	1	1	0	1
10108	1	1	1	2	2	1	1	1	1	0	1
10109	1	1	1	2	2	1	1	1	1	0	1
10110	1	1	1	2	2	1	1	1	1	0	1
10111	1	1	1	2	2	1	1	1	1	0	1
10112	1	1	1	2	2	1	1	1	1	0	1
n		12	12	12	12	12	12	12	12	12	12

	Pupil size		Lacration		Salivation		Secretions/ Excretions	
Animal No.								
10101	1	1	1	1	1	1	0	0
10102	1	1	1	1	1	1	0	0
10103	1	1	1	1	1	1	0	0
10104	1	1	1	1	1	1	0	0
10105	1	1	1	1	1	1	0	0
10106	1	1	1	1	1	1	0	0
10107	1	1	1	1	1	1	0	0
10108	1	1	1	1	1	1	0	0
10109	1	1	1	1	1	1	0	0
10110	1	1	1	1	1	1	0	0
10111	1	1	1	1	1	1	0	0
10112	1	1	1	1	1	1	0	0
n	12	12	12	12	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Male	Ease of Removal	Ease of Handling	Muscle tone	Stage : Pre Dose : isononane 60 mg/kg
Animal No.				Piloerection
10201	1	1	2	1
10202	1	1	2	1
10203	1	1	2	1
10204	1	1	2	1
10205	1	1	2	1
10206	1	1	2	1
10207	1	1	2	1
10208	1	1	2	1
10209	1	1	2	1
10210	1	1	2	1
10211	1	1	2	1
10212	1	1	2	1
n	12	12	12	12

Stage : Pre Dose : isononane 60 mg/kg

Species : Rat	Mucous membranes	Skin
Eyes		
Animal No.		
10201	1	1
10202	1	0
10203	1	0
10204	1	0
10205	1	0
10206	1	0
10207	1	0
10208	1	0
10209	1	0
10210	1	0
10211	1	0
10212	1	0
n	12	12

Pupil size

Animal No.	Lacrimation	Salivation	Secretions/ Excretions
10201	1	1	0
10202	1	1	0
10203	1	1	0
10204	1	1	0
10205	1	1	0
10206	1	1	0
10207	1	1	0
10208	1	1	0
10209	1	1	0
10210	1	1	0
10211	1	1	0
10212	1	1	0
n	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Male	Ease of Removal	Ease of Handling	Muscle tone	Stage : Pre Dose : isononane 250 mg/kg	Fur	Eyes	Species : Rat Mucous membranes	Skin
Animal No.				Piloerection				
10301	1	1	2	1	1	1	0	1
10302	1	1	2	1	1	0	0	1
10303	1	1	2	1	1	0	0	1
10304	1	1	2	1	1	0	0	1
10305	1	1	2	1	1	0	0	1
10306	1	1	2	1	1	0	0	1
10307	1	1	2	1	1	0	0	1
10308	1	1	2	1	1	0	0	1
10309	1	1	2	1	1	0	0	1
10310	1	1	2	1	1	0	0	1
10311	1	1	2	1	1	0	0	1
10312	1	1	2	1	1	0	0	1
n	12	12	12	12	12	12	12	12

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/ Excretions
10301	1	1	1	0
10302	1	1	1	0
10303	1	1	1	0
10304	1	1	1	0
10305	1	1	1	0
10306	1	1	1	0
10307	1	1	1	0
10308	1	1	1	0
10309	1	1	1	0
10310	1	1	1	0
10311	1	1	1	0
10312	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Male	Ease of Removal	Ease of Handling	Muscle tone	Stage : Pre Dose : isononane 1000 mg/kg	Fur	Eyes	Species : Rat Mucous membranes	Skin
Animal No.				Piloerection				
10401	1	1	2	1	1	1	0	1
10402	1	1	2	1	1	0	0	1
10403	1	1	2	1	1	0	0	1
10404	1	1	2	1	1	0	0	1
10405	1	1	2	1	1	0	0	1
10406	1	1	2	1	1	0	0	1
10407	1	1	2	1	1	0	0	1
10408	1	1	2	1	1	0	0	1
10409	1	1	2	1	1	0	0	1
10410	1	1	2	1	1	0	0	1
10411	1	1	2	1	1	0	0	1
10412	1	1	2	1	1	0	0	1
n	12	12	12	12	12	12	12	12

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/ Excretions
10401	1	1	1	0
10402	1	1	1	0
10403	1	1	1	0
10404	1	1	1	0
10405	1	1	1	0
10406	1	1	1	0
10407	1	1	1	0
10408	1	1	1	0
10409	1	1	1	0
10410	1	1	1	0
10411	1	1	1	0
10412	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

	Sex : Male	Stage : Day 7 Dose : isononane 0 mg/kg		
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
10101	1	1	2	1
10102	1	1	2	1
10103	1	1	2	1
10104	1	1	2	1
10105	1	1	2	1
10106	1	1	2	1
10107	1	1	2	1
10108	1	1	2	1
10109	1	1	2	1
10110	1	1	2	1
10111	1	1	2	1
10112	1	1	2	1
n	12	12	12	12

Animal No.	Stage : Day 7 Dose : isononane 0 mg/kg			Species : Rat		
	Ease of Removal	Ease of Handling	Muscle tone	Fur	Eyes	Mucous membranes
10101	1	1	2	1	1	0
10102	1	1	2	1	1	0
10103	1	1	2	1	1	0
10104	1	1	2	1	1	0
10105	1	1	2	1	1	0
10106	1	1	2	1	1	0
10107	1	1	2	1	1	0
10108	1	1	2	1	1	0
10109	1	1	2	1	1	0
10110	1	1	2	1	1	0
10111	1	1	2	1	1	0
10112	1	1	2	1	1	0
n	12	12	12	12	12	12

Animal No.	Stage : Day 7 Dose : isononane 0 mg/kg			Species : Rat		
	Pupil size	Lacrimation	Salivation	Secretions/ Excretions		
10101	1	1	1	0	0	
10102	1	1	1	0	0	
10103	1	1	1	0	0	
10104	1	1	1	0	0	
10105	1	1	1	0	0	
10106	1	1	1	0	0	
10107	1	1	1	0	0	
10108	1	1	1	0	0	
10109	1	1	1	0	0	
10110	1	1	1	0	0	
10111	1	1	1	0	0	
10112	1	1	1	0	0	
n	12	12	12	12	12	

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Male	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.									

Stage : Day 7
Dose : isonanane 60 mg/kg

Animal No.	1	1	2	1	1	1	1	0	1
10201	1	1	2	1	1	1	1	0	1
10202	1	1	2	1	1	1	1	0	1
10203	1	1	2	1	1	1	1	0	1
10204	1	1	2	1	1	1	1	0	1
10205	1	1	2	1	1	1	1	0	1
10206	1	1	2	1	1	1	1	0	1
10207	1	1	2	1	1	1	1	0	1
10208	1	1	2	1	1	1	1	0	1
10209	1	1	2	1	1	1	1	0	1
10210	1	1	2	1	1	1	1	0	1
10211	1	1	2	1	1	1	1	0	1
10212	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/Excretions
10201	1	1	1	0
10202	1	1	1	0
10203	1	1	1	0
10204	1	1	1	0
10205	1	1	1	0
10206	1	1	1	0
10207	1	1	1	0
10208	1	1	1	0
10209	1	1	1	0
10210	1	1	1	0
10211	1	1	1	0
10212	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Animal No.	Detailed clinical observation (on the hand)			Stage : Day 7 Dose : isononane 250 mg/kg		
	Sex : Male Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes
10301	1	1	2	1	1	1
10302	1	1	2	1	1	0
10303	1	1	2	1	1	0
10304	1	1	2	1	1	0
10305	1	1	2	1	1	0
10306	1	1	2	1	1	0
10307	1	1	2	1	1	0
10308	1	1	2	1	1	0
10309	1	1	2	1	1	0
10310	1	1	2	1	1	0
10311	1	1	2	1	1	0
10312	1	1	2	1	1	0
n	12	12	12	12	12	12

Animal No.	Pupil size	Lacration	Salivation	Secretions/ Excretions	
				Severities	Count
10301	1	1	1	0	0
10302	1	1	1	0	0
10303	1	1	1	0	0
10304	1	1	1	0	0
10305	1	1	1	0	0
10306	1	1	1	0	0
10307	1	1	1	0	0
10308	1	1	1	0	0
10309	1	1	1	0	0
10310	1	1	1	0	0
10311	1	1	1	0	0
10312	1	1	1	0	0
n	12	12	12	0	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Male	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.									
10401	1	1	2	1	1	1	1	0	1
10402	1	1	2	1	1	1	1	0	1
10403	1	1	2	1	1	1	1	0	1
10404	1	1	2	1	1	1	1	0	1
10405	1	1	2	1	1	1	1	0	1
10406	1	1	2	1	1	1	1	0	1
10407	1	1	2	1	1	1	1	0	1
10408	1	1	2	1	1	1	1	0	1
10409	1	1	2	1	1	1	1	0	1
10410	1	1	2	1	1	1	1	0	1
10411	1	1	2	1	1	1	1	0	1
10412	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/Excretions
10401	1	1	1	0
10402	1	1	1	0
10403	1	1	1	0
10404	1	1	1	0
10405	1	1	1	0
10406	1	1	1	0
10407	1	1	1	0
10408	1	1	1	0
10409	1	1	1	0
10410	1	1	1	0
10411	1	1	1	0
10412	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

	Sex : Male	Stage : Day 14 Dose : isononane 0 mg/kg		
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
10101	1	1	2	1
10102	1	1	2	1
10103	1	1	2	1
10104	1	1	2	1
10105	1	1	2	1
10106	1	1	2	1
10107	1	1	2	1
10108	1	1	2	1
10109	1	1	2	1
10110	1	1	2	1
10111	1	1	2	1
10112	1	1	2	1
n	12	12	12	12

Stage : Day 14
Dose : isononane 0 mg/kg

	Species : Rat		
Animal No.	Eyes	Mucous membranes	Skin
10101	1	0	1
10102	1	0	1
10103	1	0	1
10104	1	0	1
10105	1	0	1
10106	1	0	1
10107	1	0	1
10108	1	0	1
10109	1	0	1
10110	1	0	1
10111	1	0	1
10112	1	0	1
n	12	12	12

	Pupil size	Lacrimation	Salivation	Secretions/ Excretions
Animal No.				
10101	1	1	1	0
10102	1	1	1	0
10103	1	1	1	0
10104	1	1	1	0
10105	1	1	1	0
10106	1	1	1	0
10107	1	1	1	0
10108	1	1	1	0
10109	1	1	1	0
10110	1	1	1	0
10111	1	1	1	0
10112	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Male	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.									
10201	1	1	2	1	1	1	1	0	1
10202	1	1	2	1	1	1	1	0	1
10203	1	1	2	1	1	1	1	0	1
10204	1	1	2	1	1	1	1	0	1
10205	1	1	2	1	1	1	1	0	1
10206	1	1	2	1	1	1	1	0	1
10207	1	1	2	1	1	1	1	0	1
10208	1	1	2	1	1	1	1	0	1
10209	1	1	2	1	1	1	1	0	1
10210	1	1	2	1	1	1	1	0	1
10211	1	1	2	1	1	1	1	0	1
10212	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Stage : Day 14

Dose : isonanane 60 mg/kg	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.						
10201	1	1	1	1	1	1
10202	1	1	1	1	1	1
10203	1	1	1	1	1	1
10204	1	1	1	1	1	1
10205	1	1	1	1	1	1
10206	1	1	1	1	1	1
10207	1	1	1	1	1	1
10208	1	1	1	1	1	1
10209	1	1	1	1	1	1
10210	1	1	1	1	1	1
10211	1	1	1	1	1	1
10212	1	1	1	1	1	1
n	12	12	12	12	12	12

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/Excretions
10201	1	1	1	0
10202	1	1	1	0
10203	1	1	1	0
10204	1	1	1	0
10205	1	1	1	0
10206	1	1	1	0
10207	1	1	1	0
10208	1	1	1	0
10209	1	1	1	0
10210	1	1	1	0
10211	1	1	1	0
10212	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Male	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.									
10301	1	1	2	1	1	1	1	0	1
10302	1	1	2	1	1	1	1	0	1
10303	1	1	2	1	1	1	1	0	1
10304	1	1	2	1	1	1	1	0	1
10305	1	1	2	1	1	1	1	0	1
10306	1	1	2	1	1	1	1	0	1
10307	1	1	2	1	1	1	1	0	1
10308	1	1	2	1	1	1	1	0	1
10309	1	1	2	1	1	1	1	0	1
10310	1	1	2	1	1	1	1	0	1
10311	1	1	2	1	1	1	1	0	1
10312	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Stage : Day 14
Dose : isoniazide 250 mg/kg

Pupil size	Lacrimation	Salivation	Secretions/ Excretions	
Animal No.				
10301	1	1	1	0
10302	1	1	1	0
10303	1	1	1	0
10304	1	1	1	0
10305	1	1	1	0
10306	1	1	1	0
10307	1	1	1	0
10308	1	1	1	0
10309	1	1	1	0
10310	1	1	1	0
10311	1	1	1	0
10312	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Male	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.									
10401	1	1	2	1	1	1	1	0	1
10402	1	1	2	1	1	1	1	0	1
10403	1	1	2	1	1	1	1	0	1
10404	1	1	2	1	1	1	1	0	1
10405	1	1	2	1	1	1	1	0	1
10406	1	1	2	1	1	1	1	0	1
10407	1	1	2	1	1	1	1	0	1
10408	1	1	2	1	1	1	1	0	1
10409	1	1	2	1	1	1	1	0	1
10410	1	1	2	1	1	1	1	0	1
10411	1	1	2	1	1	1	1	0	1
10412	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Stage : Day 14

Dose : isoniazide 1000 mg/kg	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.						
10401	1	1	1	1	1	1
10402	1	1	1	1	1	1
10403	1	1	1	1	1	1
10404	1	1	1	1	1	1
10405	1	1	1	1	1	1
10406	1	1	1	1	1	1
10407	1	1	1	1	1	1
10408	1	1	1	1	1	1
10409	1	1	1	1	1	1
10410	1	1	1	1	1	1
10411	1	1	1	1	1	1
10412	1	1	1	1	1	1
n	12	12	12	12	12	12

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/Excretions
10401	1	1	1	0
10402	1	1	1	0
10403	1	1	1	0
10404	1	1	1	0
10405	1	1	1	0
10406	1	1	1	0
10407	1	1	1	0
10408	1	1	1	0
10409	1	1	1	0
10410	1	1	1	0
10411	1	1	1	0
10412	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

	Sex : Male	Stage : Day 21		
	Ease of Removal	Dose : isonanate 0 mg/kg		
	Ease of Handling	Muscle tone	Piloerection	Fur
Animal No.				
10101	1	1	2	1
10102	1	1	2	1
10103	1	1	2	1
10104	1	1	2	1
10105	1	1	2	1
10106	1	1	2	1
10107	1	1	2	1
10108	1	1	2	1
10109	1	1	2	1
10110	1	1	2	1
10111	1	1	2	1
10112	1	1	2	1
n	12	12	12	12

Detailed clinical observation (on the hand)

	Sex : Male	Stage : Day 21		
	Ease of Removal	Dose : isonanate 0 mg/kg		
	Ease of Handling	Muscle tone	Piloerection	Fur
Animal No.				
10101	1	2	1	1
10102	1	2	1	1
10103	1	2	1	1
10104	1	2	1	1
10105	1	2	1	1
10106	1	2	1	1
10107	1	2	1	1
10108	1	2	1	1
10109	1	2	1	1
10110	1	2	1	1
10111	1	2	1	1
10112	1	2	1	1
n	12	12	12	12

	Pupil size	Lacrimation	Salivation	Secretions/ Excretions
Animal No.				
10101	1	1	1	0
10102	1	1	1	0
10103	1	1	1	0
10104	1	1	1	0
10105	1	1	1	0
10106	1	1	1	0
10107	1	1	1	0
10108	1	1	1	0
10109	1	1	1	0
10110	1	1	1	0
10111	1	1	1	0
10112	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Male	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.									
10201	1	1	2	1	1	1	1	0	1
10202	1	1	2	1	1	1	1	0	1
10203	1	1	2	1	1	1	1	0	1
10204	1	1	2	1	1	1	1	0	1
10205	1	1	2	1	1	1	1	0	1
10206	1	1	2	1	1	1	1	0	1
10207	1	1	2	1	1	1	1	0	1
10208	1	1	2	1	1	1	1	0	1
10209	1	1	2	1	1	1	1	0	1
10210	1	1	2	1	1	1	1	0	1
10211	1	1	2	1	1	1	1	0	1
10212	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Stage : Day 21

Dose : isonanane 60 mg/kg	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.						
10201	1	1	1	1	0	1
10202	1	1	1	1	0	1
10203	1	1	1	1	0	1
10204	1	1	1	1	0	1
10205	1	1	1	1	0	1
10206	1	1	1	1	0	1
10207	1	1	1	1	0	1
10208	1	1	1	1	0	1
10209	1	1	1	1	0	1
10210	1	1	1	1	0	1
10211	1	1	1	1	0	1
10212	1	1	1	1	0	1
n	12	12	12	12	12	12

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/Excretions
10201	1	1	1	0
10202	1	1	1	0
10203	1	1	1	0
10204	1	1	1	0
10205	1	1	1	0
10206	1	1	1	0
10207	1	1	1	0
10208	1	1	1	0
10209	1	1	1	0
10210	1	1	1	0
10211	1	1	1	0
10212	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Male	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.									
10301	1	1	2	1	1	1	1	0	1
10302	1	1	2	1	1	1	1	0	1
10303	1	1	2	1	1	1	1	0	1
10304	1	1	2	1	1	1	1	0	1
10305	1	1	2	1	1	1	1	0	1
10306	1	1	2	1	1	1	1	0	1
10307	1	1	2	1	1	1	1	0	1
10308	1	1	2	1	1	1	1	0	1
10309	1	1	2	1	1	1	1	0	1
10310	1	1	2	1	1	1	1	0	1
10311	1	1	2	1	1	1	1	0	1
10312	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Stage : Day 21
Dose : isoniazide 250 mg/kg

Pupil size	Lacrimation	Salivation	Secretions/ Excretions	
Animal No.				
10301	1	1	1	0
10302	1	1	1	0
10303	1	1	1	0
10304	1	1	1	0
10305	1	1	1	0
10306	1	1	1	0
10307	1	1	1	0
10308	1	1	1	0
10309	1	1	1	0
10310	1	1	1	0
10311	1	1	1	0
10312	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Male	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.									
10401	1	1	2	1	1	1	1	0	1
10402	1	1	2	1	1	1	1	0	1
10403	1	1	2	1	1	1	1	0	1
10404	1	1	2	1	1	1	1	0	1
10405	1	1	2	1	1	1	1	0	1
10406	1	1	2	1	1	1	1	0	1
10407	1	1	2	1	1	1	1	0	1
10408	1	1	2	1	1	1	1	0	1
10409	1	1	2	1	1	1	1	0	1
10410	1	1	2	1	1	1	1	0	1
10411	1	1	2	1	1	1	1	0	1
10412	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/Excretions
10401	1	1	1	0
10402	1	1	1	0
10403	1	1	1	0
10404	1	1	1	0
10405	1	1	1	0
10406	1	1	1	0
10407	1	1	1	0
10408	1	1	1	0
10409	1	1	1	0
10410	1	1	1	0
10411	1	1	1	0
10412	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Male	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat
Animal No.							Skin
10101	1	1	2	1	1	1	0
10102	1	1	2	1	1	1	1
10103	1	1	2	1	1	1	1
10104	1	1	2	1	1	1	1
10105	1	1	2	1	1	1	1
10106	1	1	2	1	1	1	1
10107	1	1	2	1	1	1	1
10108	1	1	2	1	1	1	1
10109	1	1	2	1	1	1	(1)
10110	1	1	2	1	1	1	1
10111	1	1	2	1	1	0	1
10112	1	1	2	1	1	0	1
n	12	12	12	12	12	12	12

Stage : Day 28

Dose : isoniazide 0 mg/kg	Piloerection	Fur	Eyes	Species : Rat
Animal No.				Skin
10101				0
10102				0
10103				0
10104				0
10105				0
10106				0
10107				0
10108				0
10109				0
10110				0
10111				0
10112				0
n				12

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/Excretions
10101	1	1	1	0
10102	1	1	1	0
10103	1	1	1	0
10104	1	1	1	0
10105	1	1	1	0
10106	1	1	1	0
10107	1	1	1	0
10108	1	1	1	0
10109	1	1	1	0
10110	1	1	1	0
10111	1	1	1	0
10112	1	1	1	0
n	12	12	12	12

(1):0
 Ease of Removal) 1:Very easy, 2:Easy, 3:Slightly difficult, 4:Difficult, 5;Very difficult.
 Ease of Handling) 1:Very easy, 2:Easy, 3:Slightly difficult, 4:Difficult, 5;Very difficult.
 Muscle tone) 1:Low, 2:Normal, 3:High.
 Piloerection) 1:Normal, 2:Slightly present, around head and back, 3:Slightly present, systemic.
 Fur) 1:Normal, 2:Slightly stained, 3:Stained.
 Eyes) 1:Not present, normal, 2:Slight ptosis, half closed, 3:Ptosis, 4:Closed.
 Mucous membranes) 1:Dark purplish appearance, cyanosis, 0:Normal, 1:Red appearance.
 Skin) 0:Pale appearance, cyanosis, 1:Normal, 2:Red appearance.
 Pupil size) 1:Normal, 2:Slightly mydriatic, 3:Mydriatic.
 Lacrimation) 1:Not present, 2:Wet around the eye, 3:Wet, 4:Severely wet.
 Salivation) 1:Not present, 2:Wet around the mouth, 3:Wet, 4:Severely wet.
 Secretions/Excretions) 0:Not present, 1:Present.

Detailed clinical observation (on the hand)

Sex : Male	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.									
10201	1	1	2	1	1	1	1	0	1
10202	1	1	2	1	1	1	1	0	1
10203	1	1	2	1	1	1	1	0	1
10204	1	1	2	1	1	1	1	0	1
10205	1	1	2	1	1	1	1	0	1
10206	1	1	2	1	1	1	1	0	1
10207	1	1	2	1	1	1	1	0	1
10208	1	1	2	1	1	1	1	0	1
10209	1	1	2	1	1	1	1	0	1
10210	1	1	2	1	1	1	1	0	1
10211	1	1	2	1	1	1	1	0	1
10212	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Stage : Day 28

Dose : isonanane 60 mg/kg	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.						
10201	1	1	1	1	0	1
10202	1	1	1	1	0	1
10203	1	1	1	1	0	1
10204	1	1	1	1	0	1
10205	1	1	1	1	0	1
10206	1	1	1	1	0	1
10207	1	1	1	1	0	1
10208	1	1	1	1	0	1
10209	1	1	1	1	0	1
10210	1	1	1	1	0	1
10211	1	1	1	1	0	1
10212	1	1	1	1	0	1
n	12	12	12	12	12	12

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/Excretions
10201	1	1	1	0
10202	1	1	1	0
10203	1	1	1	0
10204	1	1	1	0
10205	1	1	1	0
10206	1	1	1	0
10207	1	1	1	0
10208	1	1	1	0
10209	1	1	1	0
10210	1	1	1	0
10211	1	1	1	0
10212	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight proptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Male	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.									
10301	1	1	2	1	1	1	1	0	1
10302	1	1	2	1	1	1	1	0	1
10303	1	1	2	1	1	1	1	0	1
10304	1	1	2	1	1	1	1	0	1
10305	1	1	2	1	1	1	1	0	1
10306	1	1	2	1	1	1	1	0	1
10307	1	1	2	1	1	1	1	0	1
10308	1	1	2	1	1	1	1	0	1
10309	1	1	2	1	1	1	1	0	1
10310	1	1	2	1	1	1	1	0	1
10311	1	1	2	1	1	1	1	0	1
10312	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Stage : Day 28
Dose : isoniazide 250 mg/kg

Pupil size	Lacrimation	Salivation	Secretions/ Excretions	
Animal No.				
10301	1	1	1	0
10302	1	1	1	0
10303	1	1	1	0
10304	1	1	1	0
10305	1	1	1	0
10306	1	1	1	0
10307	1	1	1	0
10308	1	1	1	0
10309	1	1	1	0
10310	1	1	1	0
10311	1	1	1	0
10312	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Male	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.									
10401	1	1	2	1	1	1	1	0	1
10402	1	1	2	1	1	1	1	0	1
10403	1	1	2	1	1	1	1	0	1
10404	1	1	2	1	1	1	1	0	1
10405	1	1	2	1	1	1	1	0	1
10406	1	1	2	1	1	1	1	0	1
10407	1	1	2	1	1	1	1	0	1
10408	1	1	2	1	1	1	1	0	1
10409	1	1	2	1	1	1	1	0	1
10410	1	1	2	1	1	1	1	0	1
10411	1	1	2	1	1	1	1	0	1
10412	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Stage : Day 28									
Dose : isoniazide 1000 mg/kg									
Animal No.	Pupil size	Lacrimation	Salivation	Secretions/Excretions	Eyes	Fur	Mucous membranes	Species : Rat	Skin
10401	1	1	1	0	0	0	0	0	1
10402	1	1	1	0	0	0	0	0	1
10403	1	1	1	0	0	0	0	0	1
10404	1	1	1	0	0	0	0	0	1
10405	1	1	1	0	0	0	0	0	1
10406	1	1	1	0	0	0	0	0	1
10407	1	1	1	0	0	0	0	0	1
10408	1	1	1	0	0	0	0	0	1
10409	1	1	1	0	0	0	0	0	1
10410	1	1	1	0	0	0	0	0	1
10411	1	1	1	0	0	0	0	0	1
10412	1	1	1	0	0	0	0	0	1
n	12	12	12	12	12	12	12	12	12

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/Excretions
10401	1	1	1	0
10402	1	1	1	0
10403	1	1	1	0
10404	1	1	1	0
10405	1	1	1	0
10406	1	1	1	0
10407	1	1	1	0
10408	1	1	1	0
10409	1	1	1	0
10410	1	1	1	0
10411	1	1	1	0
10412	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Animal No.	Sex : Female		Ease of Removal		Ease of Handling		Muscle tone		Stage : Pre Dose : isononane 0 mg/kg		Stage : Pre Dose : isononane 0 mg/kg	
		n		n		n		n		n		n
50151	1	1	1	1	2	2	1	1	1	1	1	1
50152	1	1	1	1	2	2	1	1	1	1	0	1
50153	1	1	1	1	2	2	1	1	1	1	0	1
50154	1	1	1	1	2	2	1	1	1	1	0	1
50155	1	1	1	1	2	2	1	1	1	1	0	1
50156	1	1	1	1	2	2	1	1	1	1	0	1
50157	1	1	1	1	2	2	1	1	1	1	0	1
50158	1	1	1	1	2	2	1	1	1	1	0	1
50159	1	1	1	1	2	2	1	1	1	1	0	1
50160	1	1	1	1	2	2	1	1	1	1	0	1
50161	1	1	1	1	2	2	1	1	1	1	0	1
50162	1	1	1	1	2	2	1	1	1	1	0	1
n		12		12		12		12		12		12

Animal No.	Pupil size		Lacration		Salivation		Secretions/ Excretions	
		n		n		n		n
50151	1	1	1	1	1	1	0	0
50152	1	1	1	1	1	1	0	0
50153	1	1	1	1	1	1	0	0
50154	1	1	1	1	1	1	0	0
50155	1	1	1	1	1	1	0	0
50156	1	1	1	1	1	1	0	0
50157	1	1	1	1	1	1	0	0
50158	1	1	1	1	1	1	0	0
50159	1	1	1	1	1	1	0	0
50160	1	1	1	1	1	1	0	0
50161	1	1	1	1	1	1	0	0
50162	1	1	1	1	1	1	0	0
n		12		12		12		12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female		Ease of Removal		Ease of Handling		Muscle tone		Stage : Pre Dose : isononane 60 mg/kg		Stage : Post Dose : isononane 60 mg/kg	
Animal No.								Piloerection	Fur	Eyes	Mucous membranes
50251	1	1	1	2	1	1	1	1	1	1	0
50252	1	1	1	2	1	1	1	1	1	0	1
50253	1	1	1	2	1	1	1	1	1	0	1
50254	1	1	1	2	1	1	1	1	1	0	1
50255	1	1	1	2	1	1	1	1	1	0	1
50256	1	1	1	2	1	1	1	1	1	0	1
50257	1	1	1	2	1	1	1	1	1	0	1
50258	1	1	1	2	1	1	1	1	1	0	1
50259	1	1	1	2	1	1	1	1	1	0	1
50260	1	1	1	2	1	1	1	1	1	0	1
50261	1	1	1	2	1	1	1	1	1	0	1
50262	1	1	1	2	1	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12	12	12

Species : Rat

Pupil size		Lacrimation		Salivation		Secretions/ Excretions	
Animal No.							
50251	1	1	1	1	1	0	0
50252	1	1	1	1	1	0	0
50253	1	1	1	1	1	0	0
50254	1	1	1	1	1	0	0
50255	1	1	1	1	1	0	0
50256	1	1	1	1	1	0	0
50257	1	1	1	1	1	0	0
50258	1	1	1	1	1	0	0
50259	1	1	1	1	1	0	0
50260	1	1	1	1	1	0	0
50261	1	1	1	1	1	0	0
50262	1	1	1	1	1	0	0
n	12	12	12	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female		Stage : Pre Dose : isononane 250 mg/kg		
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
50351	1	1	2	1
50352	1	1	2	1
50353	1	1	2	1
50354	1	1	2	1
50355	1	1	2	1
50356	1	1	2	1
50357	1	1	2	1
50358	1	1	2	1
50359	1	1	2	1
50360	1	1	2	1
50361	1	1	2	1
50362	1	1	2	1
n	12	12	12	12

Stage : Post Dose : isononane 250 mg/kg

Species : Rat		Species : Rat		
Animal No.	Eyes	Fur	Mucous membranes	Skin
50351	1	1	0	1
50352	1	1	0	1
50353	1	1	0	1
50354	1	1	0	1
50355	1	1	0	1
50356	1	1	0	1
50357	1	1	0	1
50358	1	1	0	1
50359	1	1	0	1
50360	1	1	0	1
50361	1	1	0	1
50362	1	1	0	1
n	12	12	12	12

Detailed clinical observation (on the hand)		Pupil size			Lacrimation		Salivation		Secretions/ Excretions	
Animal No.										
50351	1	1	1	1						
50352	1	1	1	1						
50353	1	1	1	1						
50354	1	1	1	1						
50355	1	1	1	1						
50356	1	1	1	1						
50357	1	1	1	1						
50358	1	1	1	1						
50359	1	1	1	1						
50360	1	1	1	1						
50361	1	1	1	1						
50362	1	1	1	1						
n	12	12	12	12						

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female		Ease of Removal		Ease of Handling		Muscle tone		Stage : Pre Dose : isononane 1000 mg/kg		Species : Rat	
Animal No.								Piloerection	Fur	Eyes	Mucous membranes
50451	1	1	1	2	2	1	1	1	1	1	0
50452	1	1	1	2	2	1	1	1	1	0	1
50453	1	1	1	2	2	1	1	1	1	0	1
50454	1	1	1	2	2	1	1	1	1	0	1
50455	1	1	1	2	2	1	1	1	1	0	1
50456	1	1	1	2	2	1	1	1	1	0	1
50457	1	1	1	2	2	1	1	1	1	0	1
50458	1	1	1	2	2	1	1	1	1	0	1
50459	1	1	1	2	2	1	1	1	1	0	1
50460	1	1	1	2	2	1	1	1	1	0	1
50461	1	1	1	2	2	1	1	1	1	0	1
50462	1	1	1	2	2	1	1	1	1	0	1
n		12	12	12	12	12	12		12	12	12

Detailed clinical observation (on the hand)		Stage : Pre Dose : isononane 1000 mg/kg		Species : Rat	
Animal No.			Piloerection	Fur	
50451	1	1	2	1	1
50452	1	1	2	1	1
50453	1	1	2	1	1
50454	1	1	2	1	1
50455	1	1	2	1	1
50456	1	1	2	1	1
50457	1	1	2	1	1
50458	1	1	2	1	1
50459	1	1	2	1	1
50460	1	1	2	1	1
50461	1	1	2	1	1
50462	1	1	2	1	1
n		12	12	12	12

Pupil size		Lacration		Salivation		Secretions/ Excretions	
Animal No.							
50451	1	1	1	1	1	0	0
50452	1	1	1	1	1	0	0
50453	1	1	1	1	1	0	0
50454	1	1	1	1	1	0	0
50455	1	1	1	1	1	0	0
50456	1	1	1	1	1	0	0
50457	1	1	1	1	1	0	0
50458	1	1	1	1	1	0	0
50459	1	1	1	1	1	0	0
50460	1	1	1	1	1	0	0
50461	1	1	1	1	1	0	0
50462	1	1	1	1	1	0	0
n		12	12	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female		Ease of Removal		Ease of Handling		Muscle tone		Stage : Day 7 Dose : isononane 0 mg/kg		Stage : Day 7 Dose : isononane 0 mg/kg	
Animal No.											
50151	1	1	1	2	2	1	1	1	1	1	1
50152	1	1	1	2	2	1	1	1	1	0	1
50153	1	1	1	2	2	1	1	1	1	0	1
50154	1	1	1	2	2	1	1	1	1	0	1
50155	1	1	1	2	2	1	1	1	1	0	1
50156	1	1	1	2	2	1	1	1	1	0	1
50157	1	1	1	2	2	1	1	1	1	0	1
50158	1	1	1	2	2	1	1	1	1	0	1
50159	1	1	1	2	2	1	1	1	1	0	1
50160	1	1	1	2	2	1	1	1	1	0	1
50161	1	1	1	2	2	1	1	1	1	0	1
50162	1	1	1	2	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12	12	12

Sex : Female		Ease of Removal		Muscle tone		Piloerection		Fur		Eyes		Species : Rat	
Animal No.													Skin
50151	1	1	1	2	2	1	1	1	1	1	1	1	1
50152	1	1	1	2	2	1	1	1	1	1	0	0	1
50153	1	1	1	2	2	1	1	1	1	1	0	0	1
50154	1	1	1	2	2	1	1	1	1	1	0	0	1
50155	1	1	1	2	2	1	1	1	1	1	0	0	1
50156	1	1	1	2	2	1	1	1	1	1	0	0	1
50157	1	1	1	2	2	1	1	1	1	1	0	0	1
50158	1	1	1	2	2	1	1	1	1	1	0	0	1
50159	1	1	1	2	2	1	1	1	1	1	0	0	1
50160	1	1	1	2	2	1	1	1	1	1	0	0	1
50161	1	1	1	2	2	1	1	1	1	1	0	0	1
50162	1	1	1	2	2	1	1	1	1	1	0	0	1
n	12	12	12	12	12	12	12	12	12	12	12	12	12

Pupil size		Lacration		Salivation		Secretions/ Excretions	
Animal No.							
50151	1	1	1	1	1	0	0
50152	1	1	1	1	1	0	0
50153	1	1	1	1	1	0	0
50154	1	1	1	1	1	0	0
50155	1	1	1	1	1	0	0
50156	1	1	1	1	1	0	0
50157	1	1	1	1	1	0	0
50158	1	1	1	1	1	0	0
50159	1	1	1	1	1	0	0
50160	1	1	1	1	1	0	0
50161	1	1	1	1	1	0	0
50162	1	1	1	1	1	0	0
n	12	12	12	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female		Ease of Removal		Ease of Handling		Muscle tone		Stage : Day 7 Dose : isonanane 60 mg/kg		Species : Rat	
Animal No.											
50251	1	1	1	2	2	1	1	1	1	0	1
50252	1	1	1	2	2	1	1	1	1	0	1
50253	1	1	1	2	2	1	1	1	1	0	1
50254	1	1	1	2	2	1	1	1	1	0	1
50255	1	1	1	2	2	1	1	1	1	0	1
50256	1	1	1	2	2	1	1	1	1	0	1
50257	1	1	1	2	2	1	1	1	1	0	1
50258	1	1	1	2	2	1	1	1	1	0	1
50259	1	1	1	2	2	1	1	1	1	0	1
50260	1	1	1	2	2	1	1	1	1	0	1
50261	1	1	1	2	2	1	1	1	1	0	1
50262	1	1	1	2	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12	12	12

Detailed clinical observation (on the hand)		Stage : Day 7 Dose : isonanane 60 mg/kg		Species : Rat	
Sex : Female		Piloerection		Mucous membranes	
Animal No.					
50251	1	1	1	1	1
50252	1	1	1	1	1
50253	1	1	1	1	1
50254	1	1	1	1	1
50255	1	1	1	1	1
50256	1	1	1	1	1
50257	1	1	2	1	1
50258	1	1	2	1	1
50259	1	1	2	1	1
50260	1	1	2	1	1
50261	1	1	2	1	1
50262	1	1	2	1	1
n	12	12	12	12	12

Detailed clinical observation (on the mouth)		Stage : Day 7 Dose : isonanane 60 mg/kg		Species : Rat	
Sex : Female		Piloerection		Mucous membranes	
Animal No.					
50251	1	1	1	1	0
50252	1	1	1	1	0
50253	1	1	1	1	0
50254	1	1	1	1	0
50255	1	1	1	1	0
50256	1	1	1	1	0
50257	1	1	1	1	0
50258	1	1	1	1	0
50259	1	1	1	1	0
50260	1	1	1	1	0
50261	1	1	1	1	0
50262	1	1	1	1	0
n	12	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat
							Skin
Animal No.							

Animal No.							
50351	1	1	2	1	1	1	1
50352	1	1	2	1	1	1	0
50353	1	1	2	1	1	1	0
50354	1	1	2	1	1	0	1
50355	1	1	2	1	1	0	1
50356	1	1	2	1	1	0	1
50357	1	1	2	1	1	0	1
50358	1	1	2	1	1	0	1
50359	1	1	2	1	1	0	1
50360	1	1	2	1	1	0	1
50361	1	1	2	1	1	0	1
50362	1	1	2	1	1	0	1
n	12	12	12	12	12	12	12

Animal No.							
	Pupil size	Lacrimation	Salivation	Secretions/ Excretions			
Animal No.							

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female		Stage : Day 7		
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
50451	1	1	2	1
50452	1	1	2	1
50453	1	1	2	1
50454	1	1	2	1
50455	1	1	2	1
50456	1	1	2	1
50457	1	1	2	1
50458	1	1	2	1
50459	1	1	2	1
50460	1	1	2	1
50461	1	1	2	1
50462	1	1	2	1
n	12	12	12	12

Sex : Female		Stage : Day 7 Dose : isononane 1000 mg/kg		
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
50451	1	1	2	1
50452	1	1	2	1
50453	1	1	2	1
50454	1	1	2	1
50455	1	1	2	1
50456	1	1	2	1
50457	1	1	2	1
50458	1	1	2	1
50459	1	1	2	1
50460	1	1	2	1
50461	1	1	2	1
50462	1	1	2	1
n	12	12	12	12

Sex : Female		Stage : Day 7 Dose : isononane 1000 mg/kg		
Animal No.	Eyes	Fur	Eyes	Species : Rat Mucous membranes
50451	1	1	1	1
50452	1	1	1	0
50453	1	1	1	0
50454	1	1	1	1
50455	1	1	1	0
50456	1	1	1	0
50457	1	1	1	0
50458	1	1	1	0
50459	1	1	1	0
50460	1	1	1	0
50461	1	1	1	0
50462	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female		Ease of Removal		Ease of Handling		Muscle tone		Stage : Day 14 Dose : isonanate 0 mg/kg	
Animal No.									

Stage : Day 14
Dose : isonanate 0 mg/kg

Piloerection		Fur		Eyes		Species : Rat	
Animal No.							

50151	1	1	2	1	1	1	1
50152	1	1	2	1	1	0	1
50153	1	1	2	1	1	0	1
50154	1	1	2	1	1	0	1
50155	1	1	2	1	1	0	1
50156	1	1	2	1	1	0	1
50157	1	1	2	1	1	0	1
50158	1	1	2	1	1	0	1
50159	1	1	2	1	1	0	1
50160	1	1	2	1	1	0	1
50161	1	1	2	1	1	0	1
50162	1	1	2	1	1	0	1
n	12	12	12	12	12	12	12

Pupil size		Lacration		Salivation		Secretions/ Excretions	
Animal No.							

50151	1	1	1	1	1	0	0
50152	1	1	1	1	1	0	0
50153	1	1	1	1	1	0	0
50154	1	1	1	1	1	0	0
50155	1	1	1	1	1	0	0
50156	1	1	1	1	1	0	0
50157	1	1	1	1	1	0	0
50158	1	1	1	1	1	0	0
50159	1	1	1	1	1	0	0
50160	1	1	1	1	1	0	0
50161	1	1	1	1	1	0	0
50162	1	1	1	1	1	0	0
n	12	12	12	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female		Ease of Removal		Ease of Handling		Muscle tone		Stage : Day 14 Dose : isonanane 60 mg/kg	
Animal No.									

Stage : Day 14
Dose : isonanane 60 mg/kg

Piloerection		Fur		Eyes		Species : Rat	
Animal No.							

50251	1	1	2	1	1	1	1
50252	1	1	2	1	1	0	1
50253	1	1	2	1	1	0	1
50254	1	1	2	1	1	0	1
50255	1	1	2	1	1	0	1
50256	1	1	2	1	1	0	1
50257	1	1	2	1	1	0	1
50258	1	1	2	1	1	0	1
50259	1	1	2	1	1	0	1
50260	1	1	2	1	1	0	1
50261	1	1	2	1	1	0	1
50262	1	1	2	1	1	0	1
n	12	12	12	12	12	12	12

Pupil size		Lacration		Salivation		Secretions/ Excretions	
Animal No.							
50251	1	1	1	1	1	0	0
50252	1	1	1	1	1	0	0
50253	1	1	1	1	1	0	0
50254	1	1	1	1	1	0	0
50255	1	1	1	1	1	0	0
50256	1	1	1	1	1	0	0
50257	1	1	1	1	1	0	0
50258	1	1	1	1	1	0	0
50259	1	1	1	1	1	0	0
50260	1	1	1	1	1	0	0
50261	1	1	1	1	1	0	0
50262	1	1	1	1	1	0	0
n	12	12	12	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.									

Stage : Day 14
Dose : isoniazide 250 mg/kg

50351	1	1	2	1	1	1	1	0	1
50352	1	1	2	1	1	1	1	0	1
50353	1	1	2	1	1	1	1	0	1
50354	1	1	2	1	1	1	1	0	1
50355	1	1	2	1	1	1	1	0	1
50356	1	1	2	1	1	1	1	0	1
50357	1	1	2	1	1	1	1	0	1
50358	1	1	2	1	1	1	1	0	1
50359	1	1	2	1	1	1	1	0	1
50360	1	1	2	1	1	1	1	0	1
50361	1	1	2	1	1	1	1	0	1
50362	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/ Excretions
50351	1	1	1	0
50352	1	1	1	0
50353	1	1	1	0
50354	1	1	1	0
50355	1	1	1	0
50356	1	1	1	0
50357	1	1	1	0
50358	1	1	1	0
50359	1	1	1	0
50360	1	1	1	0
50361	1	1	1	0
50362	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female		Stage : Day 14		
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
50451	1	1	2	1
50452	1	1	2	1
50453	1	1	2	1
50454	1	1	2	1
50455	1	1	2	1
50456	1	1	2	1
50457	1	1	2	1
50458	1	1	2	1
50459	1	1	2	1
50460	1	1	2	1
50461	1	1	2	1
50462	1	1	2	1
n	12	12	12	12

Dose : isoniazide 1000 mg/kg

Species : Rat		Stage : Day 14		
Animal No.		Eyes	Mucous membranes	Skin
50451	1	1	0	1
50452	1	1	0	1
50453	1	1	0	1
50454	1	1	0	1
50455	1	1	0	1
50456	1	1	0	1
50457	1	1	0	1
50458	1	1	0	1
50459	1	1	0	1
50460	1	1	0	1
50461	1	1	0	1
50462	1	1	0	1
n	12	12	12	12

Dose : isoniazide 1000 mg/kg

Species : Rat		Stage : Day 14		
Animal No.		Lacration	Salivation	Secretions/ Excretions
50451	1	1	1	0
50452	1	1	1	0
50453	1	1	1	0
50454	1	1	1	0
50455	1	1	1	0
50456	1	1	1	0
50457	1	1	1	0
50458	1	1	1	0
50459	1	1	1	0
50460	1	1	1	0
50461	1	1	1	0
50462	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female

Animal No.	Detailed clinical observation (on the hand)			Stage : Day 21 Dose : isonanate 0 mg/kg		
	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes
50151	1	1	2	1	1	1
50152	1	1	2	1	1	0
50153	1	1	2	1	1	0
50154	1	1	2	1	1	0
50155	1	1	2	1	1	0
50156	1	1	2	1	1	0
50157	1	1	2	1	1	0
50158	1	1	2	1	1	0
50159	1	1	2	1	1	0
50160	1	1	2	1	1	0
50161	1	1	2	1	1	0
50162	1	1	2	1	1	0
n	12	12	12	12	12	12

Animal No.	Pupil size			Lacration		Salivation		Secretions/ Excretions	
50151	1	1	1	1	1	1	1	0	0
50152	1	1	1	1	1	1	1	0	0
50153	1	1	1	1	1	1	1	0	0
50154	1	1	1	1	1	1	1	0	0
50155	1	1	1	1	1	1	1	0	0
50156	1	1	1	1	1	1	1	0	0
50157	1	1	1	1	1	1	1	0	0
50158	1	1	1	1	1	1	1	0	0
50159	1	1	1	1	1	1	1	0	0
50160	1	1	1	1	1	1	1	0	0
50161	1	1	1	1	1	1	1	0	0
50162	1	1	1	1	1	1	1	0	0
n	12	12	12	12	12	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female		Stage : Day 21		
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
50251	1	1	2	1
50252	1	1	2	1
50253	1	1	2	1
50254	1	1	2	1
50255	1	1	2	1
50256	1	1	2	1
50257	1	1	2	1
50258	1	1	2	1
50259	1	1	2	1
50260	1	1	2	1
50261	1	1	2	1
50262	1	1	2	1
n	12	12	12	12

Dose : isonanane 60 mg/kg

Sex : Female		Stage : Day 21		
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
50251	1	1	2	1
50252	1	1	2	1
50253	1	1	2	1
50254	1	1	2	1
50255	1	1	2	1
50256	1	1	2	1
50257	1	1	2	1
50258	1	1	2	1
50259	1	1	2	1
50260	1	1	2	1
50261	1	1	2	1
50262	1	1	2	1
n	12	12	12	12

Species : Rat

Sex : Female		Stage : Day 21		
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
50251	1	1	2	1
50252	1	1	2	1
50253	1	1	2	1
50254	1	1	2	1
50255	1	1	2	1
50256	1	1	2	1
50257	1	1	2	1
50258	1	1	2	1
50259	1	1	2	1
50260	1	1	2	1
50261	1	1	2	1
50262	1	1	2	1
n	12	12	12	12

Species : Rat

Sex : Female		Stage : Day 21		
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
50251	1	1	2	1
50252	1	1	2	1
50253	1	1	2	1
50254	1	1	2	1
50255	1	1	2	1
50256	1	1	2	1
50257	1	1	2	1
50258	1	1	2	1
50259	1	1	2	1
50260	1	1	2	1
50261	1	1	2	1
50262	1	1	2	1
n	12	12	12	12

Detailed clinical observation (on the hand)		Stage : Day 21		
Sex : Female		Dose : isonanane 60 mg/kg		
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
50251	1	1	2	1
50252	1	1	2	1
50253	1	1	2	1
50254	1	1	2	1
50255	1	1	2	1
50256	1	1	2	1
50257	1	1	2	1
50258	1	1	2	1
50259	1	1	2	1
50260	1	1	2	1
50261	1	1	2	1
50262	1	1	2	1
n	12	12	12	12

Detailed clinical observation (on the hand)		Stage : Day 21		
Sex : Female		Dose : isonanane 60 mg/kg		
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
50251	1	1	2	1
50252	1	1	2	1
50253	1	1	2	1
50254	1	1	2	1
50255	1	1	2	1
50256	1	1	2	1
50257	1	1	2	1
50258	1	1	2	1
50259	1	1	2	1
50260	1	1	2	1
50261	1	1	2	1
50262	1	1	2	1
n	12	12	12	12

Detailed clinical observation (on the hand)		Stage : Day 21		
Sex : Female		Dose : isonanane 60 mg/kg		
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
50251	1	1	2	1
50252	1	1	2	1
50253	1	1	2	1
50254	1	1	2	1
50255	1	1	2	1
50256	1	1	2	1
50257	1	1	2	1
50258	1	1	2	1
50259	1	1	2	1
50260	1	1	2	1
50261	1	1	2	1
50262	1	1	2	1
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female		Stage : Day 21 Dose : isonanate 250 mg/kg		
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
50351	1	1	2	1
50352	1	1	2	1
50353	1	1	2	1
50354	1	1	2	1
50355	1	1	2	1
50356	1	1	2	1
50357	1	1	2	1
50358	1	1	2	1
50359	1	1	2	1
50360	1	1	2	1
50361	1	1	2	1
50362	1	1	2	1
n	12	12	12	12

Detailed clinical observation (on the hand)

Sex : Female		Stage : Day 21 Dose : isonanate 250 mg/kg		
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
50351	1	1	2	1
50352	1	1	2	1
50353	1	1	2	1
50354	1	1	2	1
50355	1	1	2	1
50356	1	1	2	1
50357	1	1	2	1
50358	1	1	2	1
50359	1	1	2	1
50360	1	1	2	1
50361	1	1	2	1
50362	1	1	2	1
n	12	12	12	12

Detailed clinical observation (on the hand)		Stage : Day 21 Dose : isonanate 250 mg/kg		
Sex : Female		Species : Rat		
Animal No.		Eyes	Mucous membranes	Skin
50351	1	1	1	1
50352	1	1	1	1
50353	1	1	1	1
50354	1	1	1	1
50355	1	1	1	1
50356	1	1	1	1
50357	1	1	1	1
50358	1	1	1	1
50359	1	1	1	1
50360	1	1	1	1
50361	1	1	1	1
50362	1	1	1	1
n	12	12	12	12

Detailed clinical observation (on the mouth)		Stage : Day 21 Dose : isonanate 250 mg/kg		
Sex : Female		Species : Rat		
Animal No.		Eyes	Mucous membranes	Skin
50351	1	1	1	1
50352	1	1	1	1
50353	1	1	1	1
50354	1	1	1	1
50355	1	1	1	1
50356	1	1	1	1
50357	1	1	1	1
50358	1	1	1	1
50359	1	1	1	1
50360	1	1	1	1
50361	1	1	1	1
50362	1	1	1	1
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female		Ease of Removal		Ease of Handling		Muscle tone		Stage : Day 21 Dose : isononane 1000 mg/kg		Species : Rat	
Animal No.											
50451	1	1	1	2	2	1	1	1	1	0	1
50452	1	1	1	2	2	1	1	1	1	0	1
50453	1	1	1	2	2	1	1	1	1	0	1
50454	1	1	1	2	2	1	1	1	1	0	1
50455	1	1	1	2	2	1	1	1	1	0	1
50456	1	1	1	2	2	1	1	1	1	0	1
50457	1	1	1	2	2	1	1	1	1	0	1
50458	1	1	1	2	2	1	1	1	1	0	1
50459	1	1	1	2	2	1	1	1	1	0	1
50460	1	1	1	2	2	1	1	1	1	0	1
50461	1	1	1	2	2	1	1	1	1	0	1
50462	1	1	1	2	2	1	1	1	1	0	1
n		12	12	12	12	12	12	12	12	12	12

Detailed clinical observation (on the hand)		Stage : Day 21 Dose : isononane 1000 mg/kg		Species : Rat	
Sex : Female		Piloerection		Mucous membranes	
Animal No.					
50451	1	1	1	1	1
50452	1	1	1	1	1
50453	1	1	1	1	1
50454	1	1	1	1	1
50455	1	1	1	1	1
50456	1	1	1	1	1
50457	1	1	1	1	1
50458	1	1	1	1	1
50459	1	1	1	1	1
50460	1	1	1	1	1
50461	1	1	1	1	1
50462	1	1	1	1	1
n		12	12	12	12

Detailed clinical observation (on the mouth)		Stage : Day 21 Dose : isononane 1000 mg/kg		Species : Rat	
Sex : Female		Piloerection		Mucous membranes	
Animal No.					
50451	1	1	1	1	0
50452	1	1	1	1	0
50453	1	1	1	1	0
50454	1	1	1	1	0
50455	1	1	1	1	0
50456	1	1	1	1	0
50457	1	1	1	1	0
50458	1	1	1	1	0
50459	1	1	1	1	0
50460	1	1	1	1	0
50461	1	1	1	1	0
50462	1	1	1	1	0
n		12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat
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Animal No.							Skin
50151	1	1	2	1	1	1	1
50152	1	1	2	1	1	1	0
50153	1	1	2	1	1	1	0
50154	1	1	2	1	1	0	1
50155	1	1	2	1	1	0	1
50156	1	1	2	1	1	0	1
50157	1	1	2	1	1	0	1
50158	1	1	2	1	1	0	1
50159	1	1	2	1	1	0	1
50160	1	1	2	1	1	0	1
50161	1	1	2	1	1	0	1
50162	1	1	2	1	1	0	1
n	12	12	12	12	12	12	12

Animal No.							Secretions/ Excretions
50151	1	1	1	1	1	0	0
50152	1	1	1	1	1	0	0
50153	1	1	1	1	1	0	0
50154	1	1	1	1	1	0	0
50155	1	1	1	1	1	0	0
50156	1	1	1	1	1	0	0
50157	1	1	1	1	1	0	0
50158	1	1	1	1	1	0	0
50159	1	1	1	1	1	0	0
50160	1	1	1	1	1	0	0
50161	1	1	1	1	1	0	0
50162	1	1	1	1	1	0	0
n	12	12	12	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female

Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
50251	1	1	2	1	1	1	1	0	1
50252	1	1	2	1	1	1	1	0	1
50253	1	1	2	1	1	1	1	0	1
50254	1	1	2	1	1	1	1	0	1
50255	1	1	2	1	1	1	1	0	1
50256	1	1	2	1	1	1	1	0	1
50257	1	1	2	1	1	1	1	0	1
50258	1	1	2	1	1	1	1	0	1
50259	1	1	2	1	1	1	1	0	1
50260	1	1	2	1	1	1	1	0	1
50261	1	1	2	1	1	1	1	0	1
50262	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/ Excretions
50251	1	1	1	0
50252	1	1	1	0
50253	1	1	1	0
50254	1	1	1	0
50255	1	1	1	0
50256	1	1	1	0
50257	1	1	1	0
50258	1	1	1	0
50259	1	1	1	0
50260	1	1	1	0
50261	1	1	1	0
50262	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.									
50351	1	1	2	1	1	1	1	0	1
50352	1	1	2	1	1	1	1	0	1
50353	1	1	2	1	1	1	1	0	1
50354	1	1	2	1	1	1	1	0	1
50355	1	1	2	1	1	1	1	0	1
50356	1	1	2	1	1	1	1	0	1
50357	1	1	2	1	1	1	1	0	1
50358	1	1	2	1	1	1	1	0	1
50359	1	1	2	1	1	1	1	0	1
50360	1	1	2	1	1	1	1	0	1
50361	1	1	2	1	1	1	1	0	1
50362	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Stage : Day 28
Dose : isoniazide 250 mg/kg

Pupil size	Lacrimation	Salivation	Secretions/ Excretions	
Animal No.				
50351	1	1	1	0
50352	1	1	1	0
50353	1	1	1	0
50354	1	1	1	0
50355	1	1	1	0
50356	1	1	1	0
50357	1	1	1	0
50358	1	1	1	0
50359	1	1	1	0
50360	1	1	1	0
50361	1	1	1	0
50362	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female		Ease of Removal		Ease of Handling		Muscle tone		Stage : Day 28 Dose : isoniazide 1000 mg/kg		Species : Rat	
Animal No.											
50451	1	1	1	2	2	1	1	1	1	0	1
50452	1	1	1	2	2	1	1	1	1	0	1
50453	1	1	1	2	2	1	1	1	1	0	1
50454	1	1	1	2	2	1	1	1	1	0	1
50455	1	1	1	2	2	1	1	1	1	0	1
50456	1	1	1	2	2	1	1	1	1	0	1
50457	1	1	1	2	2	1	1	1	1	0	1
50458	1	1	1	2	2	1	1	1	1	0	1
50459	1	1	1	2	2	1	1	1	1	0	1
50460	1	1	1	2	2	1	1	1	1	0	1
50461	1	1	1	2	2	1	1	1	1	0	1
50462	1	1	1	2	2	1	1	1	1	0	1
n		12	12	12	12	12	12	12	12	12	12

Sex : Female		Ease of Removal		Muscle tone		Stage : Day 28 Dose : isoniazide 1000 mg/kg		Fur		Species : Rat	
Animal No.											
50451	1	1	1	2	2	1	1	1	1	0	1
50452	1	1	1	2	2	1	1	1	1	0	1
50453	1	1	1	2	2	1	1	1	1	0	1
50454	1	1	1	2	2	1	1	1	1	0	1
50455	1	1	1	2	2	1	1	1	1	0	1
50456	1	1	1	2	2	1	1	1	1	0	1
50457	1	1	1	2	2	1	1	1	1	0	1
50458	1	1	1	2	2	1	1	1	1	0	1
50459	1	1	1	2	2	1	1	1	1	0	1
50460	1	1	1	2	2	1	1	1	1	0	1
50461	1	1	1	2	2	1	1	1	1	0	1
50462	1	1	1	2	2	1	1	1	1	0	1
n		12	12	12	12	12	12	12	12	12	12

Pupil size		Lacration		Salivation		Secretions/ Excretions	
Animal No.							
50451	1	1	1	1	1	0	0
50452	1	1	1	1	1	0	0
50453	1	1	1	1	1	0	0
50454	1	1	1	1	1	0	0
50455	1	1	1	1	1	0	0
50456	1	1	1	1	1	0	0
50457	1	1	1	1	1	0	0
50458	1	1	1	1	1	0	0
50459	1	1	1	1	1	0	0
50460	1	1	1	1	1	0	0
50461	1	1	1	1	1	0	0
50462	1	1	1	1	1	0	0
n		12	12	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat
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Animal No.							Skin
50151	1	1	2	1	1	1	1
50152	1	1	2	1	1	1	0
50153	1	1	2	1	1	1	0
50154	1	1	2	1	1	0	1
50155	1	1	2	1	1	0	1
50156	1	1	2	1	1	0	1
50157	1	1	2	1	1	0	1
50158	1	1	2	1	1	0	1
50159	1	1	2	1	1	0	1
50160	1	1	2	1	1	0	1
50161	1	1	2	1	1	0	1
50162	1	1	2	1	1	0	1
n	12	12	12	12	12	12	12

Animal No.							Secretions/ Excretions
50151	1	1	1	1	1	0	0
50152	1	1	1	1	1	0	0
50153	1	1	1	1	1	0	0
50154	1	1	1	1	1	0	0
50155	1	1	1	1	1	0	0
50156	1	1	1	1	1	0	0
50157	1	1	1	1	1	0	0
50158	1	1	1	1	1	0	0
50159	1	1	1	1	1	0	0
50160	1	1	1	1	1	0	0
50161	1	1	1	1	1	0	0
50162	1	1	1	1	1	0	0
n	12	12	12	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female

Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
50251	1	1	2	1	1	1	1	0	1
50252	1	1	2	1	1	1	1	0	1
50253	1	1	2	1	1	1	1	0	1
50254	1	1	2	1	1	1	1	0	1
50255	1	1	2	1	1	1	1	0	1
50256	1	1	2	1	1	1	1	0	1
50257	1	1	2	1	1	1	1	0	1
50258	1	1	2	1	1	1	1	0	1
50259	1	1	2	1	1	1	1	0	1
50260	1	1	2	1	1	1	1	0	1
50261	1	1	2	1	1	1	1	0	1
50262	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Stage : Day 35

Dose : isonanate 60 mg/kg

Pupil size

Lacration

Salivation

Secretions/ Excretions

Animal No.	Pupil size	Lacration	Salivation	Secretions/ Excretions
50251	1	1	1	0
50252	1	1	1	0
50253	1	1	1	0
50254	1	1	1	0
50255	1	1	1	0
50256	1	1	1	0
50257	1	1	1	0
50258	1	1	1	0
50259	1	1	1	0
50260	1	1	1	0
50261	1	1	1	0
50262	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
Animal No.									
50351	1	1	2	1	1	1	1	0	1
50352	1	1	2	1	1	1	1	0	1
50353	1	1	2	1	1	1	1	0	1
50354	1	1	2	1	1	1	1	0	1
50355	1	1	2	1	1	1	1	0	1
50356	1	1	2	1	1	1	1	0	1
50357	1	1	2	1	1	1	1	0	1
50358	1	1	2	1	1	1	1	0	1
50359	1	1	2	1	1	1	1	0	1
50360	1	1	2	1	1	1	1	0	1
50361	1	1	2	1	1	1	1	0	1
50362	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Stage : Day 35
Dose : isoniazide 250 mg/kg

Pupil size	Lacrimation	Salivation	Secretions/ Excretions	
Animal No.				
50351	1	1	1	0
50352	1	1	1	0
50353	1	1	1	0
50354	1	1	1	0
50355	1	1	1	0
50356	1	1	1	0
50357	1	1	1	0
50358	1	1	1	0
50359	1	1	1	0
50360	1	1	1	0
50361	1	1	1	0
50362	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female		Ease of Removal		Muscle tone		Stage : Day 35 Dose : isoniazide 1000 mg/kg		Fur		Species : Rat	
Animal No.											
50451	1	1	1	2	2	1	1	1	1	0	1
50452	1	1	1	2	2	1	1	1	1	0	1
50453	1	1	1	2	2	1	1	1	1	0	1
50454	1	1	1	2	2	1	1	1	1	0	1
50455	1	1	1	2	2	1	1	1	1	0	1
50456	1	1	1	2	2	1	1	1	1	0	1
50457	1	1	1	2	2	1	1	1	1	0	1
50458	1	1	1	2	2	1	1	1	1	0	1
50459	1	1	1	2	2	1	1	1	1	0	1
50460	1	1	1	2	2	1	1	1	1	0	1
50461	1	1	1	2	2	1	1	1	1	0	1
50462	1	1	1	2	2	1	1	1	1	0	1
n		12	12	12	12	12	12	12	12	12	12

Sex : Female		Ease of Removal		Muscle tone		Stage : Day 35 Dose : isoniazide 1000 mg/kg		Fur		Species : Rat	
Animal No.											
50451	1	1	1	2	2	1	1	1	1	0	1
50452	1	1	1	2	2	1	1	1	1	0	1
50453	1	1	1	2	2	1	1	1	1	0	1
50454	1	1	1	2	2	1	1	1	1	0	1
50455	1	1	1	2	2	1	1	1	1	0	1
50456	1	1	1	2	2	1	1	1	1	0	1
50457	1	1	1	2	2	1	1	1	1	0	1
50458	1	1	1	2	2	1	1	1	1	0	1
50459	1	1	1	2	2	1	1	1	1	0	1
50460	1	1	1	2	2	1	1	1	1	0	1
50461	1	1	1	2	2	1	1	1	1	0	1
50462	1	1	1	2	2	1	1	1	1	0	1
n		12	12	12	12	12	12	12	12	12	12

Pupil size		Lacration		Salivation		Secretions/ Excretions	
Animal No.							
50451	1	1	1	1	1	0	0
50452	1	1	1	1	1	0	0
50453	1	1	1	1	1	0	0
50454	1	1	1	1	1	0	0
50455	1	1	1	1	1	0	0
50456	1	1	1	1	1	0	0
50457	1	1	1	1	1	0	0
50458	1	1	1	1	1	0	0
50459	1	1	1	1	1	0	0
50460	1	1	1	1	1	0	0
50461	1	1	1	1	1	0	0
50462	1	1	1	1	1	0	0
n		12	12	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat
							Skin

Animal No.	Stage : Day 42 Dose : isonanate 0 mg/kg				Species : Rat		
	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Mucous membranes
50151	1	1	2	1	1	1	1
50152	1	1	2	1	1	1	0
50153	1	1	2	1	1	1	0
50154	1	1	2	1	1	0	1
50155	1	1	2	1	1	0	1
50156	1	1	2	1	1	0	1
50157	1	1	2	1	1	0	1
50159	1	1	2	1	1	0	1
50160	1	1	2	1	1	0	1
50161	1	1	2	1	1	0	1
50162	1	1	2	1	1	0	1
n	11	11	11	11	11	11	11

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/ Excretions
50151	1	1	1	0
50152	1	1	1	0
50153	1	1	1	0
50154	1	1	1	0
50155	1	1	1	0
50156	1	1	1	0
50157	1	1	1	0
50159	1	1	1	0
50160	1	1	1	0
50161	1	1	1	0
50162	1	1	1	0
n	11	11	11	11

(Ease of Removal) 1:Very easy, 2:Easy, 3:Slightly difficult, 4:Difficult, 5:Very difficult.

(Ease of Handling) 1:Very easy, 2:Easy, 3:Slightly difficult, 4:Difficult, 5:Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1:Normal, 2:Slightly present, around head and back, 3:Slightly present, systemic, 4:Severely present, systemic.

(Fur) 1:Normal, 2:Slightly stained, 3;Stained.

(Eyes) 1:Not present, normal, 2:Slight ptosis, half closed, 3:Ptosis, 4:Closed.

(Mucous membranes) 1:Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2:Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2:Wet around the eye, 3:Wet, 4:Severely wet.

(Salivation) 1;Not present, 2:Wet around the mouth, 3:Wet, 4:Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female

Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat	Mucous membranes	Skin
50251	1	1	2	1	1	1	1	0	1
50252	1	1	2	1	1	1	1	0	1
50253	1	1	2	1	1	1	1	0	1
50254	1	1	2	1	1	1	1	0	1
50255	1	1	2	1	1	1	1	0	1
50256	1	1	2	1	1	1	1	0	1
50257	1	1	2	1	1	1	1	0	1
50258	1	1	2	1	1	1	1	0	1
50259	1	1	2	1	1	1	1	0	1
50260	1	1	2	1	1	1	1	0	1
50261	1	1	2	1	1	1	1	0	1
50262	1	1	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12

Stage : Day 42

Dose : isonanane 60 mg/kg

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/ Excretions
50251	1	1	1	0
50252	1	1	1	0
50253	1	1	1	0
50254	1	1	1	0
50255	1	1	1	0
50256	1	1	1	0
50257	1	1	1	0
50258	1	1	1	0
50259	1	1	1	0
50260	1	1	1	0
50261	1	1	1	0
50262	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat
							Skin
Animal No.							

Stage : Day 42
Dose : isoniazide 250 mg/kg

50351	1	1	2	1	1	1	1
50352	1	1	2	1	1	0	1
50353	1	1	2	1	1	0	1
50355	1	1	2	1	1	0	1
50356	1	1	2	1	1	0	1
50357	1	1	2	1	1	0	1
50358	1	1	2	1	1	0	1
50359	1	1	2	1	1	0	1
50360	1	1	2	1	1	0	1
50361	1	1	2	1	1	0	1
50362	1	1	2	1	1	0	1
n	11	11	11	11	11	11	11

Pupil size Lacrimation Salivation Secretions/
Excretions

Animal No.							
50351	1	1	1	1	1	0	0
50352	1	1	1	1	1	0	0
50353	1	1	1	1	1	0	0
50355	1	1	1	1	1	0	0
50356	1	1	1	1	1	0	0
50357	1	1	1	1	1	0	0
50358	1	1	1	1	1	0	0
50359	1	1	1	1	1	0	0
50360	1	1	1	1	1	0	0
50361	1	1	1	1	1	0	0
50362	1	1	1	1	1	0	0
n	11	11	11	11	11	11	11

(Ease of Removal) 1:Very easy, 2:Easy, 3:Slightly difficult, 4:Difficult, 5:Very difficult.
 (Ease of Handling) 1:Very easy, 2:Easy, 3:Slightly difficult, 4:Difficult, 5:Very difficult.
 (Muscle tone) 1:Low, 2:Normal, 3:High.

(Piloerection) 1:Normal, 2:Slightly present, around head and back, 3: Slightly present, systemic, 4:Severely present, systemic.
 (Fur) 1:Normal, 2:Slightly stained, 3:Stained.

(Eyes) 1:Not present, normal, 2:Slight ptosis, half closed, 3:Ptosis, 4:Closed.
 (Mucous membranes) 1:Dark purplish appearance, cyanosis, 0:Normal, 1:Red appearance.

(Skin) 0:Pale appearance, cyanosis, 1:Normal, 2:Red appearance.
 (Pupil size) 1:Normal, 2:Slightly mydriatic, 3:Mydriatic.

(Lacrimation) 1:Not present, 2:Wet around the eye, 3:Wet, 4:Severely wet.

(Salivation) 1:Not present, 2:Wet around the mouth, 3:Wet, 4:Severely wet.

(Secretions/Excretions) 0:Not present, 1:Present.

Detailed clinical observation (on the hand)

Sex : Female		Stage : Day 42		
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
50451	1	1	2	1
50452	1	1	2	1
50453	1	1	2	1
50454	1	1	2	1
50455	1	1	2	1
50456	1	1	2	1
50457	1	1	2	1
50458	1	1	2	1
50459	1	1	2	1
50460	1	1	2	1
50461	1	1	2	1
50462	1	1	2	1
n	12	12	12	12

Detailed clinical observation (on the hand)		Stage : Day 42			Species : Rat		
Sex : Female		Dose : isonanate 1000 mg/kg			Eyes		Mucous membranes
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur		Skin
50451	1	1	2	1	1	1	0
50452	1	1	2	1	1	0	1
50453	1	1	2	1	1	0	1
50454	1	1	2	1	1	0	1
50455	1	1	2	1	1	0	1
50456	1	1	2	1	1	0	1
50457	1	1	2	1	1	0	1
50458	1	1	2	1	1	0	1
50459	1	1	2	1	1	0	1
50460	1	1	2	1	1	0	1
50461	1	1	2	1	1	0	1
50462	1	1	2	1	1	0	1
n	12	12	12	12	12	12	12

Pupil size		Lacration	Salivation	Secretions/Excretions
Animal No.				
50451	1	1	1	0
50452	1	1	1	0
50453	1	1	1	0
50454	1	1	1	0
50455	1	1	1	0
50456	1	1	1	0
50457	1	1	1	0
50458	1	1	1	0
50459	1	1	1	0
50460	1	1	1	0
50461	1	1	1	0
50462	1	1	1	0
n	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)
Sex : Female

Animal No.	Stage : Day 49 Dose : isonanate 0 mg/kg				
	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur
50151	1	1	2	1	1
50152	1	1	2	1	1
50153	1	1	2	1	1
50154	1	1	2	1	1
50155	1	1	2	1	1
50156	1	1	2	1	1
50157	1	1	2	1	1
50159	1	1	2	1	1
50160	1	1	2	1	1
50161	1	1	2	1	1
50162	1	1	2	1	1
n	11	11	11	11	11

Animal No.	Stage : Day 49 Dose : isonanate 0 mg/kg			
	Pupil size	Lacrimation	Salivation	Secretions/ Excretions
50151	1	1	1	0
50152	1	1	1	0
50153	1	1	1	0
50154	1	1	1	0
50155	1	1	1	0
50156	1	1	1	0
50157	1	1	1	0
50159	1	1	1	0
50160	1	1	1	0
50161	1	1	1	0
50162	1	1	1	0
n	11	11	11	11

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female		Ease of Removal		Ease of Handling		Muscle tone		Stage : Day 49 Dose : isonanane 60 mg/kg		Species : Rat	
Animal No.								Piloerection	Fur	Eyes	Mucous membranes
50251	1	1	1	2	2	1	1	1	1	1	0
50252	1	1	1	2	2	1	1	1	1	0	1
50253	1	1	1	2	2	1	1	1	1	0	1
50254	1	1	1	2	2	1	1	1	1	0	1
50255	1	1	1	2	2	1	1	1	1	0	1
50256	1	1	1	2	2	1	1	1	1	0	1
50257	1	1	1	2	2	1	1	1	1	0	1
50258	1	1	1	2	2	1	1	1	1	0	1
50259	1	1	1	2	2	1	1	1	1	0	1
50260	1	1	1	2	2	1	1	1	1	0	1
50261	1	1	1	2	2	1	1	1	1	0	1
50262	1	1	1	2	2	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12	12	12

Detailed clinical observation (on the hand)

Sex : Female		Ease of Removal		Ease of Handling		Muscle tone		Stage : Day 49 Dose : isonanane 60 mg/kg		Species : Rat	
Animal No.								Piloerection	Fur	Eyes	Mucous membranes
50251	1	1	1	1	1	1	1	1	1	1	0
50252	1	1	1	1	1	1	1	1	1	0	1
50253	1	1	1	1	1	1	1	1	1	0	1
50254	1	1	1	1	1	1	1	1	1	0	1
50255	1	1	1	1	1	1	1	1	1	0	1
50256	1	1	1	1	1	1	1	1	1	0	1
50257	1	1	1	1	1	1	1	1	1	0	1
50258	1	1	1	1	1	1	1	1	1	0	1
50259	1	1	1	1	1	1	1	1	1	0	1
50260	1	1	1	1	1	1	1	1	1	0	1
50261	1	1	1	1	1	1	1	1	1	0	1
50262	1	1	1	1	1	1	1	1	1	0	1
n	12	12	12	12	12	12	12	12	12	12	12

Pupil size		Lacrimation		Salivation		Secretions/ Excretions	
Animal No.							
50251	1	1	1	1	1	0	0
50252	1	1	1	1	1	0	0
50253	1	1	1	1	1	0	0
50254	1	1	1	1	1	0	0
50255	1	1	1	1	1	0	0
50256	1	1	1	1	1	0	0
50257	1	1	1	1	1	0	0
50258	1	1	1	1	1	0	0
50259	1	1	1	1	1	0	0
50260	1	1	1	1	1	0	0
50261	1	1	1	1	1	0	0
50262	1	1	1	1	1	0	0
n	12	12	12	12	12	12	12

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female		Stage : Day 49 Dose : isononane 250 mg/kg			
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur
50351	1	1	2	1	1
50352	1	1	2	1	1
50353	1	1	2	1	1
50355	1	1	2	1	1
50356	1	1	2	1	1
50357	1	1	2	1	1
50358	1	1	2	1	1
50359	1	1	2	1	1
50361	1	1	2	1	1
50362	1	1	2	1	1
n	10	10	10	10	10

Animal No.	Stage : Day 49 Dose : isononane 250 mg/kg			
	Ease of Removal	Ease of Handling	Muscle tone	Piloerection
50351	1	1	2	1
50352	1	1	2	1
50353	1	1	2	1
50355	1	1	2	1
50356	1	1	2	1
50357	1	1	2	1
50358	1	1	2	1
50359	1	1	2	1
50361	1	1	2	1
50362	1	1	2	1
n	10	10	10	10

Animal No.	Stage : Day 49 Dose : isononane 250 mg/kg			
	Pupil size	Lacration	Salivation	Secretions/ Excretions
50351	1	1	1	0
50352	1	1	1	0
50353	1	1	1	0
50355	1	1	1	0
50356	1	1	1	0
50357	1	1	1	0
50358	1	1	1	0
50359	1	1	1	0
50361	1	1	1	0
50362	1	1	1	0
n	10	10	10	10

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Strained.

(Eyes) 1;Not present, normal, 2;Slight proptosis, half closed, 3;Ptosis, 4;Closed.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Species : Rat
							Skin

Animal No.	Stage : Day 49 Dose : isonanone 1000 mg/kg						
	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Mucous membranes
50451	1	1	2	1	1	1	1
50452	1	1	2	1	1	1	0
50453	1	1	2	1	1	1	0
50454	1	1	2	1	1	0	1
50455	1	1	2	1	1	0	1
50456	1	1	2	1	1	0	1
50457	1	1	2	1	1	0	1
50458	1	1	2	1	1	0	1
50459	1	1	2	1	1	0	1
50460	1	1	2	1	1	0	1
50462	1	1	2	1	1	0	1
n	11	11	11	11	11	11	11

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/ Excretions
50451	1	1	1	0
50452	1	1	1	0
50453	1	1	3	0
50454	1	1	1	0
50455	1	1	1	0
50456	1	1	1	0
50457	1	1	1	0
50458	1	1	1	0
50459	1	1	1	0
50460	1	1	1	0
50462	1	1	1	0
n	11	11	11	11

(Ease of Removal) 1:Very easy, 2:Easy, 3:Slightly difficult, 4:Difficult, 5:Very difficult.

(Ease of Handling) 1:Very easy, 2:Easy, 3:Slightly difficult, 4:Difficult, 5:Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1:Normal, 2:Slightly present, around head and back, 3:Slightly present, systemic, 4:Severely present, systemic.

(Fur) 1:Normal, 2:Slightly stained, 3;Stained.

(Eyes) 1:Not present, normal, 2:Slight ptosis, half closed, 3:Ptosis, 4:Closed.

(Mucous membranes) 1:Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Pupil size) 1;Normal, 2:Slightly mydriatic, 3;Mydriatic.

(Lacrimation) 1;Not present, 2:Wet around the eye, 3;Wet, 4:Severely wet.

(Salivation) 1;Not present, 2:Wet around the mouth, 3;Wet, 4:Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)
Sex : Female (satellite)

Animal No.	Detailed clinical observation (on the hand)		Stage : Pre		Stage : Isononane 0 mg/kg		Species : Rat	
	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes	Mucous membranes	Skin
50551	1	1	2	1	1	1	0	1
50552	1	1	2	1	1	1	0	1
50553	1	1	2	1	1	1	0	1
50554	1	1	2	1	1	1	0	1
50555	1	1	2	1	1	1	0	1
50556	1	1	2	1	1	1	0	1
50557	1	1	2	1	1	1	0	1
50558	1	1	2	1	1	1	0	1
50559	1	1	2	1	1	1	0	1
50560	1	1	2	1	1	1	0	1
n	10	10	10	10	10	10	10	10

Animal No.	Pupil size		Lacrimation	Salivation	Secretions/Excretions
50551	1	1	1	1	0
50552	1	1	1	1	0
50553	1	1	1	1	0
50554	1	1	1	1	0
50555	1	1	1	1	0
50556	1	1	1	1	0
50557	1	1	1	1	0
50558	1	1	1	1	0
50559	1	1	1	1	0
50560	1	1	1	1	0
n	10	10	10	10	10

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
Muscle tone) 1;Low, 2;Normal, 3;High.
Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
Fur) 1;Normal, 2;Slightly stained, 3;Stained.
Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
Mucous membranes) 1;Dark purplish appearance, cyanosis, 1;Normal, 2;Red appearance.
Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female (satellite)		Stage : Pre		
Ease of Removal		Ease of Handling		Muscle tone
Animal No.				
50651	1	1	2	1
50652	1	1	2	1
50653	1	1	2	1
50654	1	1	2	1
50655	1	1	2	1
50656	1	1	2	1
50657	1	1	2	1
50658	1	1	2	1
50659	1	1	2	1
50660	1	1	2	1
n	10	10	10	10

Dose : Isononane 1000 mg/kg

Stage : Isononane 1000 mg/kg		Species : Rat		
Piloerection		Fur	Eyes	Mucous membranes
Animal No.				Skin
50651	1	1	1	0
50652	1	1	1	1
50653	0	1	1	1
50654	1	1	0	1
50655	1	1	0	1
50656	1	1	0	1
50657	1	1	0	1
50658	1	1	0	1
50659	1	1	0	1
50660	1	1	0	1
n	10	10	10	10

Detailed clinical observation (on the hand)		Stage : Pre		
Sex : Female (satellite)		Dose : Isononane 1000 mg/kg		
Ease of Removal		Muscle tone		Piloerection
Animal No.				
50651	1	1	2	1
50652	1	1	2	1
50653	1	0	1	0
50654	1	1	1	0
50655	1	1	1	0
50656	1	1	1	0
50657	1	1	1	0
50658	1	1	1	0
50659	1	1	1	0
50660	1	1	1	0
n	10	10	10	10

Detailed clinical observation (on the hand)		Stage : Post		
Sex : Female (satellite)		Dose : Isononane 1000 mg/kg		
Ease of Removal		Muscle tone		Piloerection
Animal No.				
50651	1	1	1	1
50652	1	1	1	0
50653	1	1	1	0
50654	1	1	1	0
50655	1	1	1	0
50656	1	1	1	0
50657	1	1	1	0
50658	1	1	1	0
50659	1	1	1	0
50660	1	1	1	0
n	10	10	10	10

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
Muscle tone) 1;Low, 2;Normal, 3;High.
Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
Fur) 1;Normal, 2;Slightly stained, 3;Stained.
Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
Mucous membranes) 1;Dark purplish appearance, cyanosis, 1;Normal, 2;Red appearance.
Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female (satellite)		Stage : Day 7			
	Ease of Removal	Ease of Handling		Muscle tone	Dose : Isoniazide 0 mg/kg
Animal No.		1	1	2	1
50551	1	1	1	2	1
50552	1	1	2	1	1
50553	1	1	2	1	0
50554	1	1	2	1	1
50555	1	1	2	1	0
50556	1	1	2	1	1
50557	1	1	2	1	0
50558	1	1	2	1	1
50559	1	1	2	1	0
50560	1	1	2	1	1
n	10	10	10	10	10

Detailed clinical observation (on the hand)

Sex : Female (satellite)		Stage : Day 7			
	Ease of Removal	Ease of Handling		Muscle tone	Dose : Isoniazide 0 mg/kg
Animal No.		1	1	2	1
50551	1	1	1	2	1
50552	1	1	1	1	1
50553	1	1	1	1	0
50554	1	1	1	1	0
50555	1	1	1	1	0
50556	1	1	1	1	0
50557	1	1	1	1	0
50558	1	1	1	1	0
50559	1	1	1	1	0
50560	1	1	1	1	1
n	10	10	10	10	10

Detailed clinical observation (on the hand)		Stage : Day 7			
Sex : Female (satellite)		Ease of Handling		Muscle tone	Dose : Isoniazide 0 mg/kg
Animal No.	Ease of Removal	1	1	2	1
50551	1	1	1	2	1
50552	1	1	2	1	1
50553	1	1	2	1	0
50554	1	1	2	1	1
50555	1	1	2	1	0
50556	1	1	2	1	1
50557	1	1	2	1	0
50558	1	1	2	1	1
50559	1	1	2	1	0
50560	1	1	2	1	1
n	10	10	10	10	10

Detailed clinical observation (on the hand)		Stage : Day 7			
Sex : Female (satellite)		Ease of Handling		Muscle tone	Dose : Isoniazide 0 mg/kg
Animal No.	Ease of Removal	1	1	2	1
50551	1	1	1	1	1
50552	1	1	1	1	0
50553	1	1	1	1	0
50554	1	1	1	1	0
50555	1	1	1	1	0
50556	1	1	1	1	0
50557	1	1	1	1	0
50558	1	1	1	1	0
50559	1	1	1	1	0
50560	1	1	1	1	0
n	10	10	10	10	10

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 Muscle tone) 1;Low, 2;Normal, 3;High.
 Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 Mucous membranes) 1;Dark purplish appearance, cyanosis, 1;Normal, 2;Red appearance.
 Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female (satellite)		Stage : Day 7		
	Ease of Removal	Ease of Handling		Muscle tone
Animal No.				
50651	1	1	2	1
50653	1	1	2	1
50654	1	0	2	1
50655	1	1	2	1
50656	1	1	2	1
50657	1	1	2	1
50658	1	1	2	1
50659	1	1	2	1
50660	1	1	2	1
n	9	9	9	9

Dose : Isoniazide 1000 mg/kg

Stage : Day 7		Dose : Isoniazide 1000 mg/kg		
	Piloerection	Fur		Eyes
Animal No.				
50651	1	1	1	1
50653	1	1	1	0
50654	1	0	1	1
50655	1	1	1	0
50656	1	1	1	1
50657	1	1	1	0
50658	1	1	1	0
50659	1	1	1	0
50660	1	0	1	1
n	9	9	9	9

Species : Rat

Species : Rat		Species : Mucous membranes		
	Skin	Eyes		Mucous membranes
Animal No.				
50651	1	1	1	0
50653	1	1	0	1
50654	0	1	0	1
50655	1	1	0	1
50656	1	1	0	1
50657	1	1	0	1
50658	1	1	0	1
50659	1	1	0	1
50660	0	1	0	1
n	9	9	9	9

Animal No.

Pupil size		Lacration		Salivation	Secretions/Excretions
Animal No.					
50651	1	1	1	1	0
50653	1	1	1	1	0
50654	1	1	1	1	0
50655	1	1	1	1	0
50656	1	1	1	1	0
50657	1	1	1	1	0
50658	1	1	1	1	0
50659	1	1	1	1	0
50660	1	1	1	1	0
n	9	9	9	9	9

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Muscle tone) 1;Low, 2;Normal, 3;High.

Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

Fur) 1;Normal, 2;Slightly stained, 3;Stained.

Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female (satellite)		Ease of Removal		Ease of Handling		Muscle tone		Dose : Isoniazide 0 mg/kg		Stage : Day 14	
Animal No.											
50551	1	1	1	2	2	1	1	1	1	1	1
50552	1	1	1	2	2	1	1	1	1	1	0
50553	1	1	0	2	1	1	1	1	1	0	1
50554	1	1	2	2	1	1	1	1	1	0	1
50555	1	1	2	1	1	1	1	1	1	0	1
50556	1	1	2	2	1	1	1	1	1	0	1
50557	1	1	2	2	1	1	1	1	1	0	1
50558	1	1	2	1	1	1	1	1	1	0	1
50559	1	1	2	1	1	1	1	1	1	0	1
50560	1	1	2	1	1	1	1	1	1	0	1
n	10	10	10	10	10	10	10	10	10	10	10

Detailed clinical observation (on the hand)

Sex : Female (satellite)		Ease of Removal		Ease of Handling		Muscle tone		Dose : Isoniazide 0 mg/kg		Stage : Day 14	
Animal No.											
50551	1	1	1	2	2	1	1	1	1	1	1
50552	1	1	1	2	2	1	1	1	1	1	0
50553	1	1	1	1	1	1	1	1	1	0	0
50554	1	1	1	1	1	1	1	1	1	0	0
50555	1	1	1	1	1	1	1	1	1	0	0
50556	1	1	1	1	1	1	1	1	1	0	0
50557	1	1	1	1	1	1	1	1	1	0	0
50558	1	1	1	1	1	1	1	1	1	0	0
50559	1	1	1	1	1	1	1	1	1	0	0
50560	1	1	1	1	1	1	1	1	1	0	0
n	10	10	10	10	10	10	10	10	10	10	10

Detailed clinical observation (on the hand)		Sex : Female (satellite)		Ease of Removal		Ease of Handling		Muscle tone		Dose : Isoniazide 0 mg/kg		Stage : Day 14	
Animal No.													
50551	1	1	1	2	2	1	1	1	1	1	1	1	1
50552	1	1	1	2	2	1	1	1	1	1	0	0	1
50553	1	1	0	2	1	1	1	1	1	1	0	0	1
50554	1	1	2	2	1	1	1	1	1	1	0	1	1
50555	1	1	2	1	1	1	1	1	1	1	0	1	1
50556	1	1	2	1	1	1	1	1	1	1	0	1	1
50557	1	1	2	2	1	1	1	1	1	1	0	0	1
50558	1	1	2	1	2	1	1	1	1	1	0	0	1
50559	1	1	2	1	2	1	1	1	1	1	0	0	1
50560	1	1	2	1	2	1	1	1	1	1	0	0	1
n	10	10	10	10	10	10	10	10	10	10	10	10	10

Detailed clinical observation (on the hand)		Sex : Female (satellite)		Ease of Removal		Ease of Handling		Muscle tone		Dose : Isoniazide 0 mg/kg		Stage : Day 14	
Animal No.													
50551	1	1	1	1	1	1	1	1	1	1	1	1	1
50552	1	1	1	1	1	1	1	1	1	1	0	0	0
50553	1	1	1	1	1	1	1	1	1	1	0	0	0
50554	1	1	1	1	1	1	1	1	1	1	0	0	0
50555	1	1	1	1	1	1	1	1	1	1	0	0	0
50556	1	1	1	1	1	1	1	1	1	1	0	0	0
50557	1	1	1	1	1	1	1	1	1	1	0	0	0
50558	1	1	1	1	1	1	1	1	1	1	0	0	0
50559	1	1	1	1	1	1	1	1	1	1	0	0	0
50560	1	1	1	1	1	1	1	1	1	1	0	0	0
n	10	10	10	10	10	10	10	10	10	10	10	10	10

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 (Muscle tone) 1;Low, 2;Normal, 3;High.
 (Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 (Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 (Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 (Mucous membranes) 1;Dark purplish appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 (Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 (Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 (Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 (Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female (satellite)		Stage : Day 14		
	Ease of Removal	Dose : Isoniazide 1000 mg/kg		
Animal No.		Muscle tone	Piloerection	Fur
50651	1	2	1	1
50653	1	2	1	1
50654	1	2	1	0
50655	1	2	1	0
50656	1	2	1	0
50657	1	2	1	0
50658	1	2	1	0
50659	1	2	1	0
50660	1	2	1	0
n	9	9	9	9

Stage : Day 14

Pupil size		Lacration		Salivation		Secretions/Excretions	
Animal No.							
50651	1	1	1	1	1	0	0
50653	1	1	1	1	1	0	0
50654	1	1	1	1	1	0	0
50655	1	1	1	1	1	0	0
50656	1	1	1	1	1	0	0
50657	1	1	1	1	1	0	0
50658	1	1	1	1	1	0	0
50659	1	1	1	1	1	0	0
50660	1	1	1	1	1	0	0
n	9	9	9	9	9	9	9

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 Muscle tone) 1;Low, 2;Normal, 3;High.
 Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic.
 Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 2;Red appearance.
 Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female (satellite)		Stage : Day 21		
	Ease of Removal	Ease of Handling		Dose : Isoniazide 0 mg/kg
Animal No.				Fur
50551	1	1	2	1
50552	1	1	2	1
50553	1	1	2	1
50554	1	1	2	1
50555	1	1	2	1
50556	1	1	2	1
50557	1	1	2	1
50558	1	1	2	1
50559	1	1	2	1
50560	1	1	2	1
n	10	10	10	10

Detailed clinical observation (on the hand)

Sex : Female (satellite)		Stage : Day 21		
	Ease of Removal	Muscle tone		Piloerection
Animal No.				
50551	1	1	2	1
50552	1	1	2	1
50553	1	1	2	1
50554	1	1	2	1
50555	1	1	2	1
50556	1	1	2	1
50557	1	1	2	1
50558	1	1	2	1
50559	1	1	2	1
50560	1	1	2	1
n	10	10	10	10

Detailed clinical observation (on the hand)		Stage : Day 21		
Sex : Female (satellite)		Dose : Isoniazide 0 mg/kg		
Animal No.		Ease of Removal	Muscle tone	Piloerection
50551	1	1	2	1
50552	1	1	2	1
50553	1	1	2	1
50554	1	1	2	1
50555	1	1	2	1
50556	1	1	2	1
50557	1	1	2	1
50558	1	1	2	1
50559	1	1	2	1
50560	1	1	2	1
n	10	10	10	10

Detailed clinical observation (on the hand)		Stage : Day 21		
Sex : Female (satellite)		Dose : Isoniazide 0 mg/kg		
Animal No.		Eyes	Mucous membranes	Skin
50551	1	1	1	1
50552	1	1	1	0
50553	1	1	1	0
50554	1	1	1	0
50555	1	1	1	0
50556	1	1	1	0
50557	1	1	0	0
50558	1	1	0	0
50559	1	1	0	0
50560	1	1	0	0
n	10	10	10	10

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
Muscle tone) 1;Low, 2;Normal, 3;High.
Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
Fur) 1;Normal, 2;Slightly stained, 3;Stained.
Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
Mucous membranes) 1;Dark purplish appearance, cyanosis, 1;Normal, 2;Red appearance.
Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female (satellite)		Stage : Day 21			Stage : Day 21		
		Ease of Removal		Muscle tone	Dose : Isoniazide 1000 mg/kg	Piloerection	Fur
Animal No.		Ease of Handling					
50651	1	1	2	1	1	1	1
50653	1	1	2	1	1	1	0
50654	1	1	2	1	1	0	1
50655	1	1	2	1	1	0	1
50656	1	1	2	1	1	0	1
50657	1	1	2	1	1	0	1
50658	1	1	2	1	1	0	1
50659	1	1	2	1	1	0	1
50660	1	1	2	1	1	0	1
n	9	9	9	9	9	9	9

Detailed clinical observation (on the hand)

Sex : Female (satellite)		Stage : Day 21			Stage : Day 21		
		Ease of Removal		Muscle tone	Dose : Isoniazide 1000 mg/kg	Piloerection	Fur
Animal No.		Ease of Handling					
50651	1	1	1	1	1	1	1
50653	1	1	1	1	1	1	0
50654	1	1	1	1	1	1	0
50655	1	1	1	1	1	1	0
50656	1	1	1	1	1	1	0
50657	1	1	1	1	1	1	0
50658	1	1	1	1	1	1	0
50659	1	1	1	1	1	1	0
50660	1	1	1	1	1	1	0
n	9	9	9	9	9	9	9

Pupil size Lacrimation Salivation Secretions/
Excretions

Pupil size		Lacrimation		Salivation		Secretions/ Excretions	
Animal No.							
50651	1	1	1	1	1	0	0
50653	1	1	1	1	1	0	0
50654	1	1	1	1	1	0	0
50655	1	1	1	1	1	0	0
50656	1	1	1	1	1	0	0
50657	1	1	1	1	1	0	0
50658	1	1	1	1	1	0	0
50659	1	1	1	1	1	0	0
50660	1	1	1	1	1	0	0
n	9	9	9	9	9	9	9

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 Muscle tone) 1;Low, 2;Normal, 3;High.
 Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic.
 Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female (satellite)		Stage : Day 28			
	Ease of Removal	Ease of Handling		Muscle tone	Dose : Isoniazide 0 mg/kg
Animal No.		1	1	2	1
50551	1	1	1	2	1
50552	1	1	1	2	1
50553	1	1	2	1	1
50554	1	1	2	1	1
50555	1	1	2	1	1
50556	1	1	2	1	1
50557	1	1	2	1	1
50558	1	1	2	1	1
50559	1	1	2	1	1
50560	1	1	2	1	1
n	10	10	10	10	10

Detailed clinical observation (on the hand)

Sex : Female (satellite)		Stage : Day 28			
	Ease of Removal	Ease of Handling		Muscle tone	Dose : Isoniazide 0 mg/kg
Animal No.		1	1	2	1
50551	1	1	1	2	1
50552	1	1	1	2	1
50553	1	1	2	1	1
50554	1	1	2	1	1
50555	1	1	2	1	1
50556	1	1	2	1	1
50557	1	1	2	1	1
50558	1	1	2	1	1
50559	1	1	2	1	1
50560	1	1	2	1	1
n	10	10	10	10	10

Detailed clinical observation (on the hand)		Stage : Day 28			
Sex : Female (satellite)		Ease of Handling		Muscle tone	Dose : Isoniazide 0 mg/kg
Animal No.		1	1	2	1
50551	1	1	1	2	1
50552	1	1	1	2	1
50553	1	1	2	1	1
50554	1	1	2	1	1
50555	1	1	2	1	1
50556	1	1	2	1	1
50557	1	1	2	1	1
50558	1	1	2	1	1
50559	1	1	2	1	1
50560	1	1	2	1	1
n	10	10	10	10	10

Detailed clinical observation (on the hand)		Stage : Day 28			
Sex : Female (satellite)		Ease of Handling		Muscle tone	Dose : Isoniazide 0 mg/kg
Animal No.		1	1	2	1
50551	1	1	1	1	1
50552	1	1	1	1	0
50553	1	1	1	1	0
50554	1	1	1	1	0
50555	1	1	1	1	0
50556	1	1	1	1	0
50557	1	1	1	1	0
50558	1	1	1	1	0
50559	1	1	1	1	0
50560	1	1	1	1	0
n	10	10	10	10	10

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 Muscle tone) 1;Low, 2;Normal, 3;High.
 Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 Mucous membranes) 1;Dark purplish appearance, cyanosis, 1;Normal, 2;Red appearance.
 Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female (satellite)		Stage : Day 28		Stage : Day 28	
		Dose : Isoniazide 1000 mg/kg		Dose : Isoniazide 1000 mg/kg	
Animal No.		Ease of Removal	Muscle tone	Piloerection	Fur
50651	1	1	2	1	1
50653	1	1	2	1	1
50654	1	1	2	1	0
50655	1	1	2	1	0
50656	1	1	2	1	0
50657	1	1	2	1	0
50658	1	1	2	1	0
50659	1	1	2	1	0
50660	1	1	2	1	0
n	9	9	9	9	9

Species : Rat

Mucous membranes		Skin	
Animal No.		Eyes	
50651	1	1	0
50653	1	1	1
50654	0	1	1
50655	0	1	1
50656	0	1	1
50657	0	1	1
50658	0	1	1
50659	0	1	1
50660	0	1	1
n	9	9	9

Species : Rat

Secretions/Excretions		Salivation		Lacrimation		Pupil size	
Animal No.							
50651	1	1	1	1	1	1	1
50653	1	1	1	1	1	1	1
50654	1	1	1	1	1	1	1
50655	1	1	1	1	1	1	1
50656	1	1	1	1	1	1	1
50657	1	1	1	1	1	1	1
50658	1	1	1	1	1	1	1
50659	1	1	1	1	1	1	1
50660	1	1	1	1	1	1	1
n	9	9	9	9	9	9	9

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Muscle tone) 1;Low, 2;Normal, 3;High.

Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

Fur) 1;Normal, 2;Slightly stained, 3;Stained.

Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Male		Sex : Female	
Animal No.	Ease of Removal	Ease of Handling	Ease of Removal
10101	1	1	1
10105	1	1	1
10108	1	1	1
10109	1	1	1
10112	1	1	1
n	5	5	5

Stage : Recovery Day 7

Dose : Isononate 0 mg/kg		Dose : Isononate 0 mg/kg	
Animal No.	Piloerection	Fur	Eyes
10101	2	1	1
10105	2	1	1
10108	2	1	1
10109	2	1	1
10112	2	1	1
n	5	5	5

Pupil size Lacrimation Salivation Secretions/
Excretions

Animal No.	Pupil size	Lacrimation	Salivation	Secretions/ Excretions
10101	1	1	1	0
10105	1	1	1	0
10108	1	1	1	0
10109	1	1	1	0
10112	1	1	1	0
n	5	5	5	5

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Muscle tone) 1;Low, 2;Normal, 3;High.

Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

Fur) 1;Normal, 2;Slightly stained, 3;Stained.

Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)	
	Sex : Male
Animal No.	Ease of Removal
10401	1
10405	1
10407	1
10409	1
10412	1
n	5

Stage : Recovery Day 7	
	Dose : Isononane 1000 mg/kg
Animal No.	Piloerection
10401	2
10405	2
10407	2
10409	2
10412	2
n	5

Pupil size	
	Lacrimation
Animal No.	Salivation
10401	1
10405	1
10407	1
10409	1
10412	1
n	5

Animal No.

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 Muscle tone) 1;Low, 2;Normal, 3;High.
 Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 Secretions/Excretions) 0;Not present, 1;Present.

Animal No.	Detailed clinical observation (on the hand)					Stage : Recovery Day 14				
	Sex : Male		Ease of Handling		Muscle tone	Dose : Isononate 0 mg/kg		Fur	Eyes	Species : Rat
	Ease of Removal				Piloerection			Mucous membranes	Skin	
10101	1	1	2	1	1	1	1	1	0	1
10105	1	1	2	1	1	1	1	1	0	1
10108	1	1	2	1	1	1	1	1	0	1
10109	1	1	2	1	1	1	1	1	0	1
10112	1	1	2	1	1	1	1	1	0	1
n	5	5	5	5	5	5	5	5	5	5

Animal No.	Detailed clinical observation (on the hand)					Stage : Recovery Day 14				
	Sex : Male		Ease of Handling		Muscle tone	Dose : Isononate 0 mg/kg		Fur	Eyes	Species : Rat
	Ease of Removal				Piloerection			Mucous membranes	Skin	
10101	1	1	1	1	1	1	1	1	0	1
10105	1	1	1	1	1	1	1	1	0	1
10108	1	1	1	1	1	1	1	1	0	1
10109	1	1	1	1	1	1	1	1	0	1
10112	1	1	1	1	1	1	1	1	0	1
n	5	5	5	5	5	5	5	5	5	5

Animal No.	Detailed clinical observation (on the hand)					Stage : Recovery Day 14				
	Sex : Male		Ease of Handling		Muscle tone	Dose : Isononate 0 mg/kg		Fur	Eyes	Species : Rat
	Ease of Removal				Piloerection			Mucous membranes	Skin	
10101	1	1	1	1	1	1	1	1	0	1
10105	1	1	1	1	1	1	1	1	0	1
10108	1	1	1	1	1	1	1	1	0	1
10109	1	1	1	1	1	1	1	1	0	1
10112	1	1	1	1	1	1	1	1	0	1
n	5	5	5	5	5	5	5	5	5	5

(Ease of Removal) 1:Very easy, 2:Easy, 3:Slightly difficult, 4:Difficult, 5:Very difficult.

(Ease of Handling) 1:Very easy, 2:Easy, 3:Slightly difficult, 4:Difficult, 5:Very difficult.

Muscle tone) 1:Low, 2:Normal, 3:High.

Piloerection) 1:Normal, 2:Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

Fur) 1:Normal, 2:Slightly stained, 3:Stained.

Eyes) 1:Not present, normal, 2:Slight ptosis, half closed, 3:Ptosis, 4:Closed.

Mucous membranes) 1:Dark purplish appearance, cyanosis, 0:Normal, 2:Red appearance.

Skin) 0:Pale appearance, cyanosis, 1:Normal, 2:Red appearance.

Pupil size) 1:Normal, 2:Slightly mydriatic, 3:Mydriatic.

Lacration) 1:Not present, 2:Wet around the eye, 3:Wet, 4:Severely wet.

Salivation) 1:Not present, 2:Wet around the mouth, 3:Wet, 4:Severely wet.

Secretions/Excretions) 0:Not present, 1:Present.

Detailed clinical observation (on the hand)	
	Sex : Male
Animal No.	Ease of Removal
10401	1
10405	1
10407	1
10409	1
10412	1
n	5

Stage : Recovery Day 14	
	Dose : Isononane 1000 mg/kg
Animal No.	Piloerection
10401	2
10405	2
10407	2
10409	2
10412	2
n	5

Pupil size	
	Lacrimation
Animal No.	Salivation
10401	1
10405	1
10407	1
10409	1
10412	1
n	5

Animal No.

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 Muscle tone) 1;Low, 2;Normal, 3;High.
 Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)	
	Sex : Female (satellite)
Ease of Removal	Ease of Handling
Animal No.	

Animal No.	Stage : Recovery Day 7			
	Dose : Isononate 0 mg/kg	Fur	Eyes	Mucous membranes
50556	1	2	1	1
50557	1	2	1	1
50558	1	2	1	1
50559	1	2	1	1
50560	1	2	1	1
n	5	5	5	5

Animal No.	Stage : Recovery Day 7			
	Pupil size	Lacrimation	Salivation	Secretions/Excretions
50556	1	1	1	0
50557	1	1	1	0
50558	1	1	1	0
50559	1	1	1	0
50560	1	1	1	0
n	5	5	5	5

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Muscle tone) 1;Low, 2;Normal, 3;High.

Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

Fur) 1;Normal, 2;Slightly stained, 3;Stained.

Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)

Sex : Female (satellite)		Stage : Recovery Day 7			
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Dose : Isononane 1000 mg/kg Piloerection	Fur
50656	1	1	2	1	1
50657	1	1	2	1	1
50658	1	1	2	1	1
50659	1	1	2	1	1
50660	1	1	2	1	1
n	5	5	5	5	5

Stage : Recovery Day 7

Sex : Female (satellite)		Dose : Isononane 1000 mg/kg			
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur
50656	1	1	2	1	1
50657	1	1	2	1	1
50658	1	1	2	1	1
50659	1	1	2	1	1
50660	1	1	2	1	1
n	5	5	5	5	5

Pupil size Lacrimation Salivation Secretions/
Excretions

Sex : Female (satellite)		Stage : Recovery Day 7			
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Dose : Isononane 1000 mg/kg Piloerection	Fur
50656	1	1	1	1	0
50657	1	1	1	1	0
50658	1	1	1	1	0
50659	1	1	1	1	0
50660	1	1	1	1	0
n	5	5	5	5	5

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.
 Muscle tone) 1;Low, 2;Normal, 3;High.
 Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.
 Fur) 1;Normal, 2;Slightly stained, 3;Stained.
 Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.
 Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.
 Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.
 Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.
 Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.
 Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.
 Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (on the hand)		Stage : Recovery Day 14			
Sex : Female (satellite)		Dose : Isononate 0 mg/kg		Dose : Isononate 0 mg/kg	
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur
50556	1	1	2	1	1
50557	1	1	2	1	1
50558	1	1	2	1	1
50559	1	1	2	1	1
50560	1	1	2	1	1
n	5	5	5	5	5

Detailed clinical observation (on the hand)		Stage : Recovery Day 14			
Sex : Female (satellite)		Dose : Isononate 0 mg/kg		Dose : Isononate 0 mg/kg	
Animal No.	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur
50556	1	1	1	1	0
50557	1	1	1	1	0
50558	1	1	1	1	0
50559	1	1	1	1	0
50560	1	1	1	1	0
n	5	5	5	5	5

Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

Muscle tone) 1;Low, 2;Normal, 3;High.

Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

Fur) 1;Normal, 2;Slightly stained, 3;Stained.

Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

Lacrimation) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

Secretions/Excretions) 0;Not present, 1;Present.

Animal No.	Detailed clinical observation (on the hand)			Stage : Recovery Day 14		
	Sex : Female (satellite)		Dose : Isononane 1000 mg/kg		Species : Rat	
	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes
50656	1	1	2	1	1	1
50657	1	1	2	1	1	0
50658	1	1	2	1	1	0
50659	1	1	2	1	1	0
50660	1	1	2	1	1	0
n	5	5	5	5	5	5

Animal No.	Detailed clinical observation (on the hand)			Stage : Recovery Day 14		
	Sex : Female (satellite)		Dose : Isononane 1000 mg/kg		Species : Rat	
	Ease of Removal	Ease of Handling	Muscle tone	Piloerection	Fur	Eyes
50656	1	1	1	1	1	0
50657	1	1	1	1	0	0
50658	1	1	1	1	0	0
50659	1	1	1	1	0	0
50660	1	1	1	1	0	0
n	5	5	5	5	5	5

(Ease of Removal) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Ease of Handling) 1;Very easy, 2;Easy, 3;Slightly difficult, 4;Difficult, 5;Very difficult.

(Muscle tone) 1;Low, 2;Normal, 3;High.

(Piloerection) 1;Normal, 2;Slightly present, around head and back, 3;Slightly present, systemic, 4;Severely present, systemic.

(Fur) 1;Normal, 2;Slightly stained, 3;Stained.

(Eyes) 1;Not present, normal, 2;Slight ptosis, half closed, 3;Ptosis, 4;Closed.

(Skin) 0;Pale appearance, cyanosis, 1;Normal, 2;Red appearance.

(Mucous membranes) 1;Dark purplish appearance, cyanosis, 0;Normal, 1;Red appearance.

(Pupil size) 1;Normal, 2;Slightly mydriatic, 3;Mydriatic.

(Lacration) 1;Not present, 2;Wet around the eye, 3;Wet, 4;Severely wet.

(Salivation) 1;Not present, 2;Wet around the mouth, 3;Wet, 4;Severely wet.

(Secretions/Excretions) 0;Not present, 1;Present.

Detailed clinical observation (in the open field)

	Sex : Male	Gait	Co-ordination of movement	Reactivity to stimuli	Stage : Pre Dose : isonanate 0 mg/kg	Urination	Defecation	Species : Rat	Excessive grooming	Unusual head movement
Animal No.					Searching					
10101	1	1	1	1	1	1	1	1	0	0
10102	1	1	1	1	1	1	1	1	0	0
10103	1	1	1	1	1	0	0	0	0	0
10104	1	1	1	1	0	0	0	0	0	0
10105	1	1	1	1	1	0	0	0	0	0
10106	1	1	1	1	0	0	0	0	0	0
10107	1	1	1	1	1	0	0	0	0	0
10108	1	1	1	1	0	0	0	0	0	0
10109	1	1	1	1	1	1	1	1	0	0
10110	1	1	1	1	1	1	1	1	0	0
10111	1	1	1	1	1	0	0	0	0	0
10112	1	1	1	1	0	0	0	0	0	0
n		12	12	12	12	12	12	12	12	12

Walking backward

		Vocalization	Aggression
Animal No.			
10101	1	1	1
10102	1	1	1
10103	1	1	1
10104	1	1	1
10105	1	1	1
10106	1	1	1
10107	1	1	1
10108	1	1	1
10109	1	1	1
10110	1	1	1
10111	1	1	1
10112	1	1	1
n	12	12	12

Gait) 0;Not moved, 1;Normal, 2; Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2; Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2; Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

	Sex : Male	Gait	Co-ordination of movement	Reactivity to stimuli	Stage : Pre Dose : isonanate 60 mg/kg	Urination	Defecation	Species : Rat	Excessive grooming	Unusual head movement
Animal No.					Searching					
10201	1	1	1	1	1	1	1	1	0	0
10202	1	1	1	1	0	0	0	0	0	0
10203	1	1	1	1	0	1	0	0	0	0
10204	1	1	1	1	0	0	0	0	0	0
10205	1	1	1	1	0	0	0	0	0	0
10206	1	1	1	1	1	1	1	0	0	0
10207	1	1	1	1	0	0	0	0	0	0
10208	1	1	1	1	0	1	0	0	0	0
10209	1	1	1	1	0	0	1	0	0	0
10210	1	1	1	1	0	0	0	0	0	0
10211	1	1	1	1	0	1	0	0	0	0
10212	1	1	1	1	0	0	0	0	0	0
n		12	12	12		12	12	12	12	12

Walking backward

Vocalization

Aggression

	Animal No.									
10201		1	1	1	1	1	1	1	0	0
10202		1	1	1	1	1	1	1	0	0
10203		1	1	1	1	1	1	1	0	0
10204		1	1	1	1	1	1	1	0	0
10205		1	1	1	1	1	1	1	0	0
10206		1	1	1	1	1	1	1	0	0
10207		1	1	1	1	1	1	1	0	0
10208		1	1	1	1	1	1	1	0	0
10209		1	1	1	1	1	1	1	0	0
10210		1	1	1	1	1	1	1	0	0
10211		1	1	1	1	1	1	1	0	0
10212		1	1	1	1	1	1	1	0	0
n		12	12	12		12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

	Sex : Male	Gait	Co-ordination of movement	Reactivity to stimuli	Stage : Pre Dose : isoniazide 250 mg/kg	Urination	Defecation	Species : Rat	Excessive grooming	Unusual head movement
Animal No.					Searching					
10301	1	1	1	1	1	1	1	1	0	0
10302	1	1	1	1	0	0	0	0	0	0
10303	1	1	1	1	0	0	0	0	0	0
10304	1	1	1	1	0	0	0	0	0	0
10305	1	1	1	1	1	1	1	0	0	0
10306	1	1	1	1	1	1	0	0	0	0
10307	1	1	1	1	1	0	0	0	0	0
10308	1	1	1	1	0	0	0	0	0	0
10309	1	1	1	1	0	1	0	0	0	0
10310	1	1	1	1	1	1	0	0	0	0
10311	1	1	1	1	1	1	0	0	0	0
10312	1	1	1	1	1	0	0	0	0	0
n		12	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

	Animal No.									
10301		1	1	1	1	1	1	1	1	1
10302		1	1	1	1	1	1	1	1	1
10303		1	1	1	1	1	1	1	1	1
10304		1	1	1	1	1	1	1	1	1
10305		1	1	1	1	1	1	1	1	1
10306		1	1	1	1	1	1	1	1	1
10307		1	1	1	1	1	1	1	1	1
10308		1	1	1	1	1	1	1	1	1
10309		1	1	1	1	1	1	1	1	1
10310		1	1	1	1	1	1	1	1	1
10311		1	1	1	1	1	1	1	1	1
10312		1	1	1	1	1	1	1	1	1
n		12	12	12	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

	Sex : Male	Gait	Co-ordination of movement	Reactivity to stimuli	Stage : Pre Dose : isononane 1000 mg/kg	Urination	Defecation	Species : Rat	Excessive grooming	Unusual head movement
Animal No.					Searching					
10401	1	1	1	1	1	0	0	0	0	0
10402	1	1	1	1	1	0	0	0	0	0
10403	1	1	1	1	1	1	0	0	0	0
10404	1	1	1	1	1	0	0	0	0	0
10405	1	1	1	1	1	0	0	0	0	0
10406	1	1	1	1	1	0	1	0	0	0
10407	1	1	1	1	1	0	0	0	0	0
10408	1	1	1	1	1	0	0	0	0	0
10409	1	1	1	1	1	1	0	0	0	0
10410	1	1	1	1	1	0	0	0	0	0
10411	1	1	1	1	1	0	0	0	0	0
10412	1	1	1	1	1	1	0	0	0	0
n		12	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

	Animal No.									
10401	10401	1	1	1	1	1	1	1	1	1
10402	10402	1	1	1	1	1	1	1	1	1
10403	10403	1	1	1	1	1	1	1	1	1
10404	10404	1	1	1	1	1	1	1	1	1
10405	10405	1	1	1	1	1	1	1	1	1
10406	10406	1	1	1	1	1	1	1	1	1
10407	10407	1	1	1	1	1	1	1	1	1
10408	10408	1	1	1	1	1	1	1	1	1
10409	10409	1	1	1	1	1	1	1	1	1
10410	10410	1	1	1	1	1	1	1	1	1
10411	10411	1	1	1	1	1	1	1	1	1
10412	10412	1	1	1	1	1	1	1	1	1
n		12	12	12	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

	Sex : Male	Gait	Co-ordination of movement	Reactivity to stimuli	Stage : Day 7 Dose : isonanate 0 mg/kg	Urination	Defecation	Species : Rat	Excessive grooming	Unusual head movement
Animal No.					Searching					
10101	1	1	1	1	1	1	1	0	0	0
10102	1	1	1	1	0	0	0	0	0	0
10103	1	1	1	1	0	0	0	0	0	0
10104	1	1	1	1	0	0	0	0	0	0
10105	1	1	1	1	0	0	0	0	0	0
10106	1	1	1	1	1	1	1	0	0	0
10107	1	1	1	1	1	0	0	0	0	0
10108	1	1	1	1	1	0	0	0	0	0
10109	1	1	1	1	1	0	0	0	0	0
10110	1	1	1	1	1	0	0	0	0	0
10111	1	1	1	1	1	0	0	0	0	0
10112	1	1	1	1	1	0	1	0	0	0
n		12	12	12		12	12	12	12	12

Walking backward

	Vocalization	Aggression
Animal No.		
10101	1	1
10102	1	1
10103	1	1
10104	1	1
10105	1	1
10106	1	1
10107	1	1
10108	1	1
10109	1	1
10110	1	1
10111	1	1
10112	1	1
n	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

	Sex : Male	Gait	Co-ordination of movement	Reactivity to stimuli	Stage : Day 7 Dose : isonanate 60 mg/kg	Urination	Defecation	Species : Rat	Excessive grooming	Unusual head movement
Animal No.										
10201	1	1	1	1	1	0	1	0	0	0
10202	1	1	1	1	1	0	0	0	0	0
10203	1	1	1	1	1	0	1	0	0	0
10204	1	1	1	1	1	0	1	0	0	0
10205	1	1	1	1	1	0	0	0	0	0
10206	1	1	1	1	1	0	0	0	0	0
10207	1	1	1	1	1	0	0	0	0	0
10208	1	1	1	1	1	0	0	0	0	0
10209	1	1	1	1	1	0	0	0	0	0
10210	1	1	1	1	1	0	0	0	0	0
10211	1	1	1	1	1	1	0	0	0	0
10212	1	1	1	1	1	0	0	0	0	0
n		12	12	12	12	12	12	12	12	12

Walking backward

	Vocalization	Aggression
Animal No.		
10201	1	1
10202	1	1
10203	1	1
10204	1	1
10205	1	1
10206	1	1
10207	1	1
10208	1	1
10209	1	1
10210	1	1
10211	1	1
10212	1	1
n	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.
Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Male

Animal No.	Gait	Co-ordination of movement	Stage : Day 7		Species : Rat	Unusual head movement
			Dose : isoniazide 250 mg/kg	Reactivity to stimuli		
10301	1	1	1	1	1	0
10302	1	1	1	0	1	0
10303	1	1	1	0	0	0
10304	1	1	1	0	0	0
10305	1	1	1	1	1	0
10306	1	1	1	1	1	0
10307	1	1	1	0	0	0
10308	1	1	1	0	0	0
10309	1	1	1	1	0	0
10310	1	1	1	0	0	0
10311	1	1	1	0	0	0
10312	1	1	1	0	0	0
n	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Gait	Co-ordination of movement	Stage : Day 7		Species : Rat	Unusual head movement
			Dose : isoniazide 250 mg/kg	Reactivity to stimuli		
10301	1	1	1	1	1	0
10302	1	1	1	1	1	0
10303	1	1	1	1	1	0
10304	1	1	1	1	1	0
10305	1	1	1	1	1	0
10306	1	1	1	1	1	0
10307	1	1	1	1	1	0
10308	1	1	1	1	1	0
10309	1	1	1	1	1	0
10310	1	1	1	1	1	0
10311	1	1	1	1	1	0
10312	1	1	1	1	1	0
n	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.
 Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.
 Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

	Sex : Male	Gait	Co-ordination of movement	Reactivity to stimuli	Stage : Day 7 Dose : isonanate 1000 mg/kg	Urination	Defecation	Species : Rat	Excessive grooming	Unusual head movement
Animal No.					Searching					
10401	1	1	1	1	1	0	0	0	0	0
10402	1	1	1	1	1	0	0	0	0	0
10403	1	1	1	1	1	0	0	0	0	0
10404	1	1	1	1	1	1	0	0	0	0
10405	1	1	1	1	1	0	0	0	0	0
10406	1	1	1	1	1	0	0	0	0	0
10407	1	1	1	1	1	0	1	0	0	0
10408	1	1	1	1	1	0	0	0	0	0
10409	1	1	1	1	1	1	0	0	0	0
10410	1	1	1	1	1	0	0	0	0	0
10411	1	1	1	1	1	0	0	0	0	0
10412	1	1	1	1	1	0	0	0	0	0
n		12	12	12	12	12	12	12	12	12

Walking backward

	Vocalization	Aggression
Animal No.		
10401	1	1
10402	1	1
10403	1	1
10404	1	1
10405	1	1
10406	1	1
10407	1	1
10408	1	1
10409	1	1
10410	1	1
10411	1	1
10412	1	1
n	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

	Sex : Male	Gait	Co-ordination of movement	Reactivity to stimuli	Stage : Day 14 Dose : isoniazide 0 mg/kg	Urination	Defecation	Species : Rat	Excessive grooming	Unusual head movement
Animal No.					Searching					
10101	1	1	1	1	1	1	1	1	0	0
10102	1	1	1	1	0	0	0	0	0	0
10103	1	1	1	1	0	0	0	0	0	0
10104	1	1	1	1	0	0	0	0	0	0
10105	1	1	1	1	0	0	0	0	0	0
10106	1	1	1	1	0	0	1	0	0	0
10107	1	1	1	1	0	0	0	0	0	0
10108	1	1	1	1	0	0	0	0	0	0
10109	1	1	1	1	0	0	0	0	0	0
10110	1	1	1	1	0	0	0	0	0	0
10111	1	1	1	1	0	0	0	0	0	0
10112	1	1	1	1	0	0	0	0	0	0
n		12	12	12		12	12	12	12	12

Walking backward

		Vocalization	Aggression
Animal No.			
10101	1	1	1
10102	1	1	1
10103	1	1	1
10104	1	1	1
10105	1	1	1
10106	1	1	1
10107	1	1	1
10108	1	1	1
10109	1	1	1
10110	1	1	1
10111	1	1	1
10112	1	1	1
n	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Male

Animal No.	Detailed clinical observation (in the open field)			Stage : Day 14 Dose : isoniazide 60 mg/kg			Species : Rat		
	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination	Defecation	Excessive grooming	Unusual head movement	
10201	1	1	1	1	0	0	0	0	
10202	1	1	1	0	0	0	0	0	
10203	1	1	1	0	1	0	0	0	
10204	1	1	1	0	1	0	0	0	
10205	1	1	1	0	0	0	0	0	
10206	1	1	1	0	0	0	0	0	
10207	1	1	1	0	0	0	0	0	
10208	1	1	1	0	0	0	0	0	
10209	1	1	1	0	0	0	0	0	
10210	1	1	1	0	0	0	0	0	
10211	1	1	1	1	1	0	0	0	
10212	1	1	1	0	0	0	0	0	
n	12	12	12	12	12	12	12	12	

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward			Vocalization			Aggression		
	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination	Defecation	Excessive grooming	Unusual head movement	
10201	1	1	1	1	1	1	0	0	
10202	1	1	1	1	1	1	0	0	
10203	1	1	1	1	1	1	0	0	
10204	1	1	1	1	1	1	0	0	
10205	1	1	1	1	1	1	0	0	
10206	1	1	1	1	1	1	0	0	
10207	1	1	1	1	1	1	0	0	
10208	1	1	1	1	1	1	0	0	
10209	1	1	1	1	1	1	0	0	
10210	1	1	1	1	1	1	0	0	
10211	1	1	1	1	1	1	0	0	
10212	1	1	1	1	1	1	0	0	
n	12	12	12	12	12	12	12	12	

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Male

Animal No.	Detailed clinical observation (in the open field)			Stage : Day 14 Dose : isoniazide 250 mg/kg			Species : Rat		
	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination	Defecation	Excessive grooming	Unusual head movement	
10301	1	1	1	1	1	0	0	0	
10302	1	1	1	1	0	0	0	0	
10303	1	1	1	1	0	1	0	0	
10304	1	1	1	1	0	0	0	0	
10305	1	1	1	1	0	0	0	0	
10306	1	1	1	1	0	0	0	0	
10307	1	1	1	1	0	0	0	0	
10308	1	1	1	1	0	0	0	0	
10309	1	1	1	1	0	0	0	0	
10310	1	1	1	1	0	0	0	0	
10311	1	1	1	1	0	0	0	0	
10312	1	1	1	1	0	0	0	0	
n	12	12	12	12	12	12	12	12	

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward			Vocalization			Aggression		
	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination	Defecation	Excessive grooming	Unusual head movement	
10301	1	1	1	1	1	1	1	1	
10302	1	1	1	1	1	1	1	1	
10303	1	1	1	1	1	1	1	1	
10304	1	1	1	1	1	1	1	1	
10305	1	1	1	1	1	1	1	1	
10306	1	1	1	1	1	1	1	1	
10307	1	1	1	1	1	1	1	1	
10308	1	1	1	1	1	1	1	1	
10309	1	1	1	1	1	1	1	1	
10310	1	1	1	1	1	1	1	1	
10311	1	1	1	1	1	1	1	1	
10312	1	1	1	1	1	1	1	1	
n	12	12	12	12	12	12	12	12	

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Male

Stage : Day 14

Dose : isoniazide 1000 mg/kg

Species : Rat

Animal No.	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination	Defecation	Excessive grooming	Unusual head movement
10401	1	1	1	1	0	0	0	0
10402	1	1	1	1	0	0	0	0
10403	1	1	1	1	0	0	0	0
10404	1	1	1	1	0	0	0	0
10405	1	1	1	1	0	0	0	0
10406	1	1	1	1	0	0	0	0
10407	1	1	1	1	0	1	0	0
10408	1	1	1	1	0	0	0	0
10409	1	1	1	1	0	0	0	0
10410	1	1	1	1	0	0	0	0
10411	1	1	1	1	0	0	0	0
10412	1	1	1	1	0	0	0	0
n	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward	Vocalization	Aggression	
10401	1	1	1	1
10402	1	1	1	1
10403	1	1	1	1
10404	1	1	1	1
10405	1	1	1	1
10406	1	1	1	1
10407	1	1	1	1
10408	1	1	1	1
10409	1	1	1	1
10410	1	1	1	1
10411	1	1	1	1
10412	1	1	1	1
n	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Stage : Day 21

	Sex : Male	Gait	Co-ordination of movement	Reactivity to stimuli	Urination	Defecation	Species : Rat	Unusual head movement
Animal No.								
10101	1	1	1	1	1	1	0	0
10102	1	1	1	1	0	0	0	0
10103	1	1	1	1	0	0	0	0
10104	1	1	1	1	0	0	0	0
10105	1	1	1	1	0	0	0	0
10106	1	1	1	1	1	0	0	0
10107	1	1	1	1	0	0	0	0
10108	1	1	1	1	0	0	0	0
10109	1	1	1	1	0	0	0	0
10110	1	1	1	1	0	0	0	0
10111	1	1	1	1	0	0	0	0
10112	1	1	1	1	0	0	0	0
n		12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

	Walking backward	Vocalization	Aggression					
Animal No.								
10101	1	1	1	1	1	1	1	1
10102	1	1	1	1	1	1	1	1
10103	1	1	1	1	1	1	1	1
10104	1	1	1	1	1	1	1	1
10105	1	1	1	1	1	1	1	1
10106	1	1	1	1	1	1	1	1
10107	1	1	1	1	1	1	1	1
10108	1	1	1	1	1	1	1	1
10109	1	1	1	1	1	1	1	1
10110	1	1	1	1	1	1	1	1
10111	1	1	1	1	1	1	1	1
10112	1	1	1	1	1	1	1	1
n		12	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.
Aggression) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the open field)			Stage : Day 21 Dose : isoniazide 60 mg/kg		
	Sex : Male	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination
10201	1	1	1	1	1	1
10202	1	1	1	1	0	0
10203	1	1	1	1	0	0
10204	1	1	1	1	0	0
10205	1	1	1	1	0	0
10206	1	1	1	1	0	0
10207	1	1	1	1	0	0
10208	1	1	1	1	0	0
10209	1	1	1	1	0	0
10210	1	1	1	1	0	0
10211	1	1	1	1	1	0
10212	1	1	1	1	0	0
n	12	12	12	12	12	12

Animal No.	Stage : Day 21 Dose : isoniazide 60 mg/kg			Species : Rat		
	Defecation	Excessive grooming	Unusual head movement	Species : Rat	Excessive grooming	Unusual head movement
10201	1	1	1	1	0	0
10202	1	1	1	0	0	0
10203	1	1	1	0	0	0
10204	1	1	1	0	0	0
10205	1	1	1	0	0	0
10206	1	1	1	0	0	0
10207	1	1	1	0	0	0
10208	1	1	1	0	0	0
10209	1	1	1	1	0	0
10210	1	1	1	1	0	0
10211	1	1	1	0	1	0
10212	1	1	1	0	0	0
n	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2; Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2; Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Male

Animal No.	Gait	Co-ordination of movement	Stage : Day 21		Species : Rat	Unusual head movement
			Dose : isoniazide 250 mg/kg	Reactivity to stimuli		
10301	1	1	1	1	1	0
10302	1	1	1	1	0	0
10303	1	1	1	0	0	0
10304	1	1	1	0	0	0
10305	1	1	1	0	0	0
10306	1	1	1	0	0	0
10307	1	1	1	0	0	0
10308	1	1	1	0	0	0
10309	1	1	1	0	0	0
10310	1	1	1	0	0	0
10311	1	1	1	0	0	0
10312	1	1	1	0	0	0
n	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Gait	Co-ordination of movement	Stage : Day 21		Species : Rat	Unusual head movement
			Dose : isoniazide 250 mg/kg	Reactivity to stimuli		
10301	1	1	1	1	1	0
10302	1	1	1	1	0	0
10303	1	1	1	1	0	0
10304	1	1	1	1	0	0
10305	1	1	1	1	0	0
10306	1	1	1	1	0	0
10307	1	1	1	1	0	0
10308	1	1	1	1	0	0
10309	1	1	1	1	0	0
10310	1	1	1	1	0	0
10311	1	1	1	1	0	0
10312	1	1	1	1	0	0
n	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Male

Stage : Day 21

Dose : isoniazide 1000 mg/kg

Animal No.	Gait	Co-ordination of movement	Reactivity to stimuli	Urination	Defecation	Species : Rat	Unusual head movement
10401	1	1	1	1	0	0	0
10402	1	1	1	1	0	0	0
10403	1	1	1	0	0	0	0
10404	1	1	1	1	0	0	0
10405	1	1	1	0	0	0	0
10406	1	1	1	0	0	0	0
10407	1	1	1	0	0	0	0
10408	1	1	1	0	0	0	0
10409	1	1	1	0	0	0	0
10410	1	1	1	0	0	0	0
10411	1	1	1	0	0	0	0
10412	1	1	1	0	0	0	0
n	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward	Vocalization	Aggression
10401	1	1	1
10402	1	1	1
10403	1	1	1
10404	1	1	1
10405	1	1	1
10406	1	1	1
10407	1	1	1
10408	1	1	1
10409	1	1	1
10410	1	1	1
10411	1	1	1
10412	1	1	1
n	12	12	12

Gait) 0;Not moved, 1;Normal, 2; Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Male

Stage : Day 28

Dose : isoniazide 0 mg/kg

Animal No.	Gait	Co-ordination of movement	Reactivity to stimuli	Urination	Defecation	Species : Rat	Unusual head movement
10101	1	1	1	1	1	0	0
10102	1	1	1	0	0	0	0
10103	1	1	1	0	0	0	0
10104	1	1	1	0	0	0	0
10105	1	1	1	0	0	0	0
10106	1	1	1	1	0	0	0
10107	1	1	1	0	0	0	0
10108	1	1	1	0	0	0	0
10109	1	1	1	0	0	0	0
10110	1	1	1	0	0	0	0
10111	1	1	1	0	0	0	0
10112	1	1	1	0	1	0	0
n	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward	Vocalization	Aggression	
10101	1	1	1	1
10102	1	1	1	1
10103	1	1	1	1
10104	1	1	1	1
10105	1	1	1	1
10106	1	1	1	1
10107	1	1	1	1
10108	1	1	1	1
10109	1	1	1	1
10110	1	1	1	1
10111	1	1	1	1
10112	1	1	1	1
n	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Male

Animal No.	Gait	Co-ordination of movement	Stage : Day 28		Species : Rat	Unusual head movement
			Dose : isoniazide 60 mg/kg	Searching		
10201	1	1	1	1	1	0
10202	1	1	1	0	0	0
10203	1	1	1	0	0	0
10204	1	1	1	0	0	0
10205	1	1	1	0	0	0
10206	1	1	1	0	0	0
10207	1	1	1	0	0	0
10208	1	1	1	0	0	0
10209	1	1	1	1	0	0
10210	1	1	1	1	0	0
10211	1	1	1	0	1	0
10212	1	1	1	0	0	0
n	12	12	12	12	12	12

Detailed clinical observation (in the open field)

Sex : Male

Animal No.	Reactivity to stimuli	Stage : Day 28		Species : Rat	Unusual head movement
		Dose : isoniazide 60 mg/kg	Searching		
10201	1	1	1	1	0
10202	1	1	0	0	0
10203	1	1	0	0	0
10204	1	1	1	0	0
10205	1	1	1	0	0
10206	1	1	0	0	0
10207	1	1	0	0	0
10208	1	1	0	0	0
10209	1	1	1	0	0
10210	1	1	1	0	0
10211	1	1	0	1	0
10212	1	1	0	0	0
n	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.	Stage : Day 28			Species : Rat	Unusual head movement
	Dose : isoniazide 60 mg/kg	Searching	Aggression		
10201	1	1	1	1	0
10202	1	1	1	1	0
10203	1	1	1	1	0
10204	1	1	1	1	0
10205	1	1	1	1	0
10206	1	1	1	1	0
10207	1	1	1	1	0
10208	1	1	1	1	0
10209	1	1	1	1	0
10210	1	1	1	1	0
10211	1	1	1	1	0
10212	1	1	1	1	0
n	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Male

Animal No.	Gait	Co-ordination of movement	Stage : Day 28		Species : Rat	Unusual head movement
			Dose : isoniazide 250 mg/kg	Searching		
10301	1	1	1	1	1	0
10302	1	1	1	0	0	0
10303	1	1	1	0	0	0
10304	1	1	1	0	0	0
10305	1	1	1	0	0	0
10306	1	1	1	0	0	0
10307	1	1	1	0	0	0
10308	1	1	1	0	0	0
10309	1	1	1	0	0	0
10310	1	1	1	0	0	0
10311	1	1	1	0	0	0
10312	1	1	1	0	0	0
n	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Gait	Co-ordination of movement	Stage : Day 28		Species : Rat	Unusual head movement
			Dose : isoniazide 250 mg/kg	Searching		
10301	1	1	1	1	1	0
10302	1	1	1	1	0	0
10303	1	1	1	1	0	0
10304	1	1	1	1	0	0
10305	1	1	1	1	0	0
10306	1	1	1	1	0	0
10307	1	1	1	1	0	0
10308	1	1	1	1	0	0
10309	1	1	1	1	0	0
10310	1	1	1	1	0	0
10311	1	1	1	1	0	0
10312	1	1	1	1	0	0
n	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2; Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0; Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2; Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

	Sex : Male	Gait	Co-ordination of movement	Reactivity to stimuli	Stage : Day 28 Dose : isoniazide 1000 mg/kg	Urination	Defecation	Species : Rat	Excessive grooming	Unusual head movement
Animal No.					Searching					
10401	1	1	1	1	1	0	0	0	0	0
10402	1	1	1	1	1	0	0	0	0	0
10403	1	1	1	1	1	0	0	0	0	0
10404	1	1	1	1	1	0	0	0	0	0
10405	1	1	1	1	1	0	0	0	0	0
10406	1	1	1	1	1	0	0	0	0	0
10407	1	1	1	1	1	0	0	0	0	0
10408	1	1	1	1	1	0	0	0	0	0
10409	1	1	1	1	1	0	0	0	0	0
10410	1	1	1	1	1	0	0	0	0	0
10411	1	1	1	1	1	0	0	0	0	0
10412	1	1	1	1	1	0	0	0	0	0
n		12	12	12	12	12	12	12	12	12

Walking backward

	Vocalization	Aggression
Animal No.		
10401	1	1
10402	1	1
10403	1	1
10404	1	1
10405	1	1
10406	1	1
10407	1	1
10408	1	1
10409	1	1
10410	1	1
10411	1	1
10412	1	1
n	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Animal No.	Sex : Female		Gait		Co-ordination of movement		Reactivity to stimuli		Stage : Pre Dose : isonanate 0 mg/kg		Species : Rat	
50151	1	1	1	1	1	1	1	1	0	0	0	0
50152	1	1	1	1	1	1	1	1	0	0	0	0
50153	1	1	1	1	1	1	1	1	0	0	0	0
50154	1	1	1	1	1	1	1	1	0	0	0	0
50155	1	1	1	1	1	1	1	1	0	0	0	0
50156	1	1	1	1	1	1	1	1	0	0	0	0
50157	1	1	1	1	1	1	1	1	0	0	0	0
50158	1	1	1	1	1	1	1	1	0	0	0	0
50159	1	1	1	1	1	1	1	1	0	0	0	0
50160	1	1	1	1	1	1	1	1	0	0	0	0
50161	1	1	1	1	1	1	1	1	0	0	0	0
50162	1	1	1	1	1	1	1	1	0	0	0	0
n	12	12	12	12	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward			Vocalization			Aggression		
50151	1	1	1	1	1	1	1	1	1
50152	1	1	1	1	1	1	1	1	1
50153	1	1	1	1	1	1	1	1	1
50154	1	1	1	1	1	1	1	1	1
50155	1	1	1	1	1	1	1	1	1
50156	1	1	1	1	1	1	1	1	1
50157	1	1	1	1	1	1	1	1	1
50158	1	1	1	1	1	1	1	1	1
50159	1	1	1	1	1	1	1	1	1
50160	1	1	1	1	1	1	1	1	1
50161	1	1	1	1	1	1	1	1	1
50162	1	1	1	1	1	1	1	1	1
n	12	12	12	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Animal No.	Sex : Female		Gait		Co-ordination of movement		Reactivity to stimuli		Stage : Pre Dose : isonanate 60 mg/kg		Species : Rat	
	Gait	Co-ordination of movement	Reactivity to stimuli	Search	Urinat	Defecat	Excessive grooming	Unusual head movement				
50251	1	1	1	1	1	0	0	0	0	0	0	0
50252	1	1	1	1	1	0	0	0	0	0	0	0
50253	1	1	1	1	0	0	0	0	0	0	0	0
50254	1	1	1	1	1	0	0	0	0	0	0	0
50255	1	1	1	1	0	0	0	0	0	0	0	0
50256	1	1	1	1	0	0	0	0	0	0	0	0
50257	1	1	1	1	0	0	0	0	0	0	0	0
50258	1	1	1	1	0	0	0	0	0	0	0	0
50259	1	1	1	1	0	0	0	0	0	0	0	0
50260	1	1	1	1	0	0	0	0	0	0	0	0
50261	1	1	1	1	0	0	0	0	0	0	0	0
50262	1	1	1	1	0	0	0	0	0	0	0	0
n	12	12	12	12	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.	Walking backward			Vocalization			Aggression		
	Gait	Co-ordination of movement	Reactivity to stimuli	Search	Urinat	Defecat	Excessive grooming	Unusual head movement	
50251	1	1	1	1	1	1	0	0	0
50252	1	1	1	1	1	1	0	0	0
50253	1	1	1	1	1	1	0	0	0
50254	1	1	1	1	1	1	0	0	0
50255	1	1	1	1	1	1	0	0	0
50256	1	1	1	1	1	1	0	0	0
50257	1	1	1	1	1	1	0	0	0
50258	1	1	1	1	1	1	0	0	0
50259	1	1	1	1	1	1	0	0	0
50260	1	1	1	1	1	1	0	0	0
50261	1	1	1	1	1	1	0	0	0
50262	1	1	1	1	1	1	0	0	0
n	12	12	12	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urinat) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Animal No.	Sex : Female		Gait		Co-ordination of movement		Reactivity to stimuli		Stage : Pre Dose : isoniazide 250 mg/kg		Species : Rat	
	Gait	Co-ordination of movement	Reactivity to stimuli	Urination	Defecation	Excessive grooming	Unusual head movement					
50351	1	1	1	1	1	0	0					
50352	1	1	1	1	1	0	0					
50353	1	1	1	1	0	0	0					
50354	1	1	1	1	0	0	0					
50355	1	1	1	1	0	0	0					
50356	1	1	1	1	0	0	0					
50357	1	1	1	1	0	0	0					
50358	1	1	1	1	0	0	0					
50359	1	1	1	1	0	0	0					
50360	1	1	1	1	0	0	0					
50361	1	1	1	1	0	0	0					
50362	1	1	1	1	0	0	0					
n	12	12	12	12	12	12	12					

Walking backward

Vocalization

Aggression

Animal No.	Walking backward			Vocalization			Aggression		
	Gait	Co-ordination of movement	Reactivity to stimuli	Urination	Defecation	Excessive grooming	Unusual head movement		
50351	1	1	1	1	1	0	0		
50352	1	1	1	1	1	0	0		
50353	1	1	1	1	1	0	0		
50354	1	1	1	1	1	0	0		
50355	1	1	1	1	1	0	0		
50356	1	1	1	1	1	0	0		
50357	1	1	1	1	1	0	0		
50358	1	1	1	1	1	0	0		
50359	1	1	1	1	1	0	0		
50360	1	1	1	1	1	0	0		
50361	1	1	1	1	1	0	0		
50362	1	1	1	1	1	0	0		
n	12	12	12	12	12	12	12		

Gait) 0;Not moved, 1;Normal, 2; Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2; Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Animal No.	Sex : Female		Gait		Co-ordination of movement		Reactivity to stimuli		Stage : Pre Dose : isononane 1000 mg/kg		Species : Rat	
	Gait	Co-ordination of movement	Reactivity to stimuli	Urination	Defecation	Excessive grooming	Unusual head movement					
50451	1	1	1	1	1	0	0					
50452	1	1	1	0	0	0	0					
50453	1	1	1	1	1	0	0					
50454	1	1	1	1	0	0	0					
50455	1	1	1	0	0	0	0					
50456	1	1	1	0	0	0	0					
50457	1	1	1	0	0	0	0					
50458	1	1	1	0	0	0	0					
50459	1	1	1	0	0	0	0					
50460	1	1	1	0	0	0	0					
50461	1	1	1	0	0	0	0					
50462	1	1	1	0	0	0	0					
n	12	12	12	12	12	12	12					

Walking backward

Vocalization

Aggression

Animal No.	Walking backward			Vocalization			Aggression		
	Gait	Co-ordination of movement	Reactivity to stimuli	Urination	Defecation	Excessive grooming	Unusual head movement		
50451	1	1	1	1	1	0	0		
50452	1	1	1	1	1	0	0		
50453	1	1	1	1	1	0	0		
50454	1	1	1	1	1	0	0		
50455	1	1	1	1	1	0	0		
50456	1	1	1	1	1	0	0		
50457	1	1	1	1	1	0	0		
50458	1	1	1	1	1	0	0		
50459	1	1	1	1	1	0	0		
50460	1	1	1	1	1	0	0		
50461	1	1	1	1	1	0	0		
50462	1	1	1	1	1	0	0		
n	12	12	12	12	12	12	12		

Gait) 0;Not moved, 1;Normal, 2; Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2; Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Animal No.	Sex : Female		Gait		Co-ordination of movement		Reactivity to stimuli		Stage : Day 7 Dose : isonanate 0 mg/kg		Species : Rat	
50151	1	1	1	1	1	1	1	1	0	0	0	0
50152	1	1	1	1	1	1	1	1	0	0	0	0
50153	1	1	1	1	1	1	1	1	0	0	0	0
50154	1	1	1	1	1	1	1	1	0	0	0	0
50155	1	1	1	1	1	1	1	1	0	0	0	0
50156	1	1	1	1	1	1	1	1	0	0	0	0
50157	1	1	1	1	1	1	1	1	0	0	0	0
50158	1	1	1	1	1	1	1	1	0	0	0	0
50159	1	1	1	1	1	1	1	1	0	0	0	0
50160	1	1	1	1	1	1	1	1	0	0	0	0
50161	1	1	1	1	1	1	1	1	0	0	0	0
50162	1	1	1	1	1	1	1	1	0	0	0	0
n	12	12	12	12	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward			Vocalization			Aggression		
50151	1	1	1	1	1	1	1	1	1
50152	1	1	1	1	1	1	1	1	1
50153	1	1	1	1	1	1	1	1	1
50154	1	1	1	1	1	1	1	1	1
50155	1	1	1	1	1	1	1	1	1
50156	1	1	1	1	1	1	1	1	1
50157	1	1	1	1	1	1	1	1	1
50158	1	1	1	1	1	1	1	1	1
50159	1	1	1	1	1	1	1	1	1
50160	1	1	1	1	1	1	1	1	1
50161	1	1	1	1	1	1	1	1	1
50162	1	1	1	1	1	1	1	1	1
n	12	12	12	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Animal No.	Gait	Co-ordination of movement	Stage : Day 7		Species : Rat	Unusual head movement
			Dose : isonanate 60 mg/kg	Reactivity to stimuli		
50251	1	1	1	1	0	0
50252	1	1	1	1	0	0
50253	1	1	1	0	0	0
50254	1	1	1	1	0	0
50255	1	1	1	0	0	0
50256	1	1	1	0	0	0
50257	1	1	1	0	0	0
50258	1	1	1	0	0	0
50259	1	1	1	0	0	0
50260	1	1	1	0	0	0
50261	1	1	1	0	0	0
50262	1	1	1	0	0	0
n	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Gait	Co-ordination of movement	Stage : Day 7		Species : Rat	Unusual head movement
			Dose : isonanate 60 mg/kg	Reactivity to stimuli		
50251	1	1	1	1	0	0
50252	1	1	1	1	0	0
50253	1	1	1	1	0	0
50254	1	1	1	1	0	0
50255	1	1	1	1	0	0
50256	1	1	1	1	0	0
50257	1	1	1	1	0	0
50258	1	1	1	1	0	0
50259	1	1	1	1	0	0
50260	1	1	1	1	0	0
50261	1	1	1	1	0	0
50262	1	1	1	1	0	0
n	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Animal No.	Sex : Female		Gait		Co-ordination of movement		Reactivity to stimuli		Stage : Day 7 Dose : isoniazide 250 mg/kg		Species : Rat	
50351	1	1	1	1	1	1	1	1	0	0	0	0
50352	1	1	1	1	1	1	1	1	0	0	0	0
50353	1	1	1	1	1	1	1	1	0	0	0	0
50354	1	1	1	1	1	1	1	1	0	0	0	0
50355	1	1	1	1	1	1	1	1	0	0	0	0
50356	1	1	1	1	1	1	1	1	0	0	0	0
50357	1	1	1	1	1	1	1	1	0	0	0	0
50358	1	1	1	1	1	1	1	1	0	0	0	0
50359	1	1	1	1	1	1	1	1	0	0	0	0
50360	1	1	1	1	1	1	1	1	0	0	0	0
50361	1	1	1	1	1	1	1	1	0	0	0	0
50362	1	1	1	1	1	1	1	1	0	0	0	0
n	12	12	12	12	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward			Vocalization			Aggression		
50351	1	1	1	1	1	1	1	1	1
50352	1	1	1	1	1	1	1	1	1
50353	1	1	1	1	1	1	1	1	1
50354	1	1	1	1	1	1	1	1	1
50355	1	1	1	1	1	1	1	1	1
50356	1	1	1	1	1	1	1	1	1
50357	1	1	1	1	1	1	1	1	1
50358	1	1	1	1	1	1	1	1	1
50359	1	1	1	1	1	1	1	1	1
50360	1	1	1	1	1	1	1	1	1
50361	1	1	1	1	1	1	1	1	1
50362	1	1	1	1	1	1	1	1	1
n	12	12	12	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Animal No.	Sex : Female		Gait		Co-ordination of movement		Reactivity to stimuli		Stage : Day 7 Dose : isonanate 1000 mg/kg		Species : Rat	
50451	1	1	1	1	1	1	1	1	1	0	0	0
50452	1	1	1	1	1	1	1	1	0	0	0	0
50453	1	1	1	1	1	1	1	1	0	0	0	0
50454	1	1	1	1	1	1	1	1	0	0	0	0
50455	1	1	1	1	1	1	1	1	0	0	0	0
50456	1	1	1	1	1	1	1	1	0	0	0	0
50457	1	1	1	1	1	1	1	1	0	0	0	0
50458	1	1	1	1	1	1	1	1	0	0	0	0
50459	1	1	1	1	1	1	1	1	0	0	0	0
50460	1	1	1	1	1	1	1	1	0	0	0	0
50461	1	1	1	1	1	1	1	1	0	0	0	0
50462	1	1	1	1	1	1	1	1	0	0	0	0
n	12	12	12	12	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward			Vocalization			Aggression		
50451	1	1	1	1	1	1	1	1	1
50452	1	1	1	1	1	1	1	1	1
50453	1	1	1	1	1	1	1	1	1
50454	1	1	1	1	1	1	1	1	1
50455	1	1	1	1	1	1	1	1	1
50456	1	1	1	1	1	1	1	1	1
50457	1	1	1	1	1	1	1	1	1
50458	1	1	1	1	1	1	1	1	1
50459	1	1	1	1	1	1	1	1	1
50460	1	1	1	1	1	1	1	1	1
50461	1	1	1	1	1	1	1	1	1
50462	1	1	1	1	1	1	1	1	1
n	12	12	12	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Animal No.	Detailed clinical observation (in the open field)			Stage : Day 14 Dose : isonanate 0 mg/kg		
	Gait	Co-ordination of movement	Reactivity to stimuli	Urination	Defecation	Species : Rat
50151	1	1	1	1	0	0
50152	1	1	1	0	0	0
50153	1	1	1	0	0	0
50154	1	1	1	0	0	0
50155	1	1	1	0	0	0
50156	1	1	1	0	0	0
50157	1	1	1	1	0	0
50158	1	1	1	1	0	0
50159	1	1	1	1	0	0
50160	1	1	1	1	0	0
50161	1	1	1	0	0	0
50162	1	1	1	0	0	0
n	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward			Vocalization			Aggression		
	Gait	Co-ordination of movement	Reactivity to stimuli	Urination	Defecation	Species : Rat			
50151	1	1	1	1	1	1			
50152	1	1	1	1	1	1			
50153	1	1	1	1	1	1			
50154	1	1	1	1	1	1			
50155	1	1	1	1	1	1			
50156	1	1	1	1	1	1			
50157	1	1	1	1	1	1			
50158	1	1	1	1	1	1			
50159	1	1	1	1	1	1			
50160	1	1	1	1	1	1			
50161	1	1	1	1	1	1			
50162	1	1	1	1	1	1			
n	12	12	12	12	12	12			

Gait) 0;Not moved, 1;Normal, 2; Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2; Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2; Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.
Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Animal No.	Detailed clinical observation (in the open field)			Stage : Day 14 Dose : isonanate 60 mg/kg			Species : Rat		
	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination	Defecation	Excessive grooming	Unusual head movement	
50251	1	1	1	1	1	0	0	0	
50252	1	1	1	1	0	0	0	0	
50253	1	1	1	1	0	0	0	0	
50254	1	1	1	1	0	0	0	0	
50255	1	1	1	1	0	0	0	0	
50256	1	1	1	1	0	0	0	0	
50257	1	1	1	1	0	0	0	0	
50258	1	1	1	1	0	0	0	0	
50259	1	1	1	1	1	0	0	0	
50260	1	1	1	1	0	0	0	0	
50261	1	1	1	1	0	0	0	0	
50262	1	1	1	1	0	0	0	0	
n	12	12	12	12	12	12	12	12	

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward			Vocalization			Aggression		
	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination	Defecation	Excessive grooming	Unusual head movement	
50251	1	1	1	1	1	1	1	1	
50252	1	1	1	1	1	1	1	1	
50253	1	1	1	1	1	1	1	1	
50254	1	1	1	1	1	1	1	1	
50255	1	1	1	1	1	1	1	1	
50256	1	1	1	1	1	1	1	1	
50257	1	1	1	1	1	1	1	1	
50258	1	1	1	1	1	1	1	1	
50259	1	1	1	1	1	1	1	1	
50260	1	1	1	1	1	1	1	1	
50261	1	1	1	1	1	1	1	1	
50262	1	1	1	1	1	1	1	1	
n	12	12	12	12	12	12	12	12	

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Animal No.	Detailed clinical observation (in the open field)			Stage : Day 14 Dose : isoniazide 250 mg/kg			Species : Rat	
	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination	Defecation	Excessive grooming	Unusual head movement
50351	1	1	1	1	1	0	0	0
50352	1	1	1	1	0	0	0	0
50353	1	1	1	1	0	0	0	0
50354	1	1	1	1	0	0	0	0
50355	1	1	1	1	0	0	0	0
50356	1	1	1	1	1	0	0	0
50357	1	1	1	1	0	0	0	0
50358	1	1	1	1	0	0	0	0
50359	1	1	1	1	0	0	0	0
50360	1	1	1	1	0	0	0	0
50361	1	1	1	1	1	0	0	0
50362	1	1	1	1	0	0	0	0
n	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward			Vocalization			Aggression		
	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination	Defecation	Excessive grooming	Unusual head movement	
50351	1	1	1	1	1	1	1	1	1
50352	1	1	1	1	1	1	1	1	1
50353	1	1	1	1	1	1	1	1	1
50354	1	1	1	1	1	1	1	1	1
50355	1	1	1	1	1	1	1	1	1
50356	1	1	1	1	1	1	1	1	1
50357	1	1	1	1	1	1	1	1	1
50358	1	1	1	1	1	1	1	1	1
50359	1	1	1	1	1	1	1	1	1
50360	1	1	1	1	1	1	1	1	1
50361	1	1	1	1	1	1	1	1	1
50362	1	1	1	1	1	1	1	1	1
n	12	12	12	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Animal No.	Gait	Co-ordination of movement	Stage : Day 14		Species : Rat				
			Dose : isonanate 1000 mg/kg	Reactivity to stimuli		Urination	Defecation	Excessive grooming	Unusual head movement
50451	1	1	1	1	1	0	0	0	0
50452	1	1	1	1	0	0	0	0	0
50453	1	1	1	1	0	0	0	0	0
50454	1	1	1	1	0	0	0	0	0
50455	1	1	1	1	0	0	0	0	0
50456	1	1	1	1	0	0	0	0	0
50457	1	1	1	1	0	0	0	0	0
50458	1	1	1	1	1	0	0	0	0
50459	1	1	1	1	1	0	0	0	0
50460	1	1	1	1	1	0	0	0	0
50461	1	1	1	1	0	0	0	0	0
50462	1	1	1	1	0	0	0	0	0
n	12	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Gait	Co-ordination of movement	Stage : Day 14		Species : Rat				
			Dose : isonanate 1000 mg/kg	Reactivity to stimuli		Urination	Defecation	Excessive grooming	Unusual head movement
50451	1	1	1	1	1	0	0	0	0
50452	1	1	1	1	1	0	0	0	0
50453	1	1	1	1	1	0	0	0	0
50454	1	1	1	1	1	0	0	0	0
50455	1	1	1	1	1	0	0	0	0
50456	1	1	1	1	1	0	0	0	0
50457	1	1	1	1	1	0	0	0	0
50458	1	1	1	1	1	0	0	0	0
50459	1	1	1	1	1	0	0	0	0
50460	1	1	1	1	1	0	0	0	0
50461	1	1	1	1	1	0	0	0	0
50462	1	1	1	1	1	0	0	0	0
n	12	12	12	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Animal No.	Detailed clinical observation (in the open field)			Stage : Day 21 Dose : isonanate 0 mg/kg			Species : Rat		
	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination	Defecation	Excessive grooming	Unusual head movement	
50151	1	1	1	1	1	0	0	0	
50152	1	1	1	1	0	0	0	0	
50153	1	1	1	1	0	0	0	0	
50154	1	1	1	1	0	0	0	0	
50155	1	1	1	1	0	0	0	0	
50156	1	1	1	1	0	0	0	0	
50157	1	1	1	1	0	0	0	0	
50158	1	1	1	1	0	0	0	0	
50159	1	1	1	1	0	0	0	0	
50160	1	1	1	1	0	0	0	0	
50161	1	1	1	1	0	0	0	0	
50162	1	1	1	1	0	0	0	0	
n	12	12	12	12	12	12	12	12	

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward			Vocalization			Aggression		
	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination	Defecation	Excessive grooming	Unusual head movement	
50151	1	1	1	1	1	1	1	1	
50152	1	1	1	1	1	1	1	1	
50153	1	1	1	1	1	1	1	1	
50154	1	1	1	1	1	1	1	1	
50155	1	1	1	1	1	1	1	1	
50156	1	1	1	1	1	1	1	1	
50157	1	1	1	1	1	1	1	1	
50158	1	1	1	1	1	1	1	1	
50159	1	1	1	1	1	1	1	1	
50160	1	1	1	1	1	1	1	1	
50161	1	1	1	1	1	1	1	1	
50162	1	1	1	1	1	1	1	1	
n	12	12	12	12	12	12	12	12	

Gait 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli 0;Not present, 1;Present (to noise, etc.).

Searching 0;Not present, 1;Present (sniffing, standing, etc.).

Urination 0;Not present, 1;Present.

Defecation 0;Not present, 1;Present.

Stereotype/Excessive grooming 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward 1;Not present, 2;Present.

Bizarre behavior/Vocalization 1;Not present, sometimes, 2;Present, frequently.

Aggression 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Animal No.	Gait	Co-ordination of movement	Reactivity to stimuli	Stage : Day 21	
				Dose : isoniazide 60 mg/kg	Urination
50251	1	1	1	1	0
50252	1	1	1	1	0
50253	1	1	1	0	0
50254	1	1	1	0	0
50255	1	1	1	0	0
50256	1	1	1	0	0
50257	1	1	1	0	0
50258	1	1	1	0	0
50259	1	1	1	1	0
50260	1	1	1	0	0
50261	1	1	1	0	0
50262	1	1	1	0	0
n	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Gait	Co-ordination of movement	Reactivity to stimuli	Stage : Day 21	
				Dose : isoniazide 60 mg/kg	Urination
50251	1	1	1	1	1
50252	1	1	1	1	1
50253	1	1	1	1	1
50254	1	1	1	1	1
50255	1	1	1	1	1
50256	1	1	1	1	1
50257	1	1	1	1	1
50258	1	1	1	1	1
50259	1	1	1	1	1
50260	1	1	1	1	1
50261	1	1	1	1	1
50262	1	1	1	1	1
n	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2; Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2; Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2; Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Animal No.	Gait	Co-ordination of movement	Stage : Day 21		Species : Rat				
			Dose : isoniazide 250 mg/kg	Reactivity to stimuli		Urination	Defecation	Excessive grooming	Unusual head movement
50351	1	1	1	1	1	0	0	0	0
50352	1	1	1	1	0	0	0	0	0
50353	1	1	1	1	0	0	0	0	0
50354	1	1	1	1	0	0	0	0	0
50355	1	1	1	1	1	0	0	0	0
50356	1	1	1	1	1	0	0	0	0
50357	1	1	1	1	0	0	0	0	0
50358	1	1	1	1	0	0	0	0	0
50359	1	1	1	1	0	0	0	0	0
50360	1	1	1	1	0	0	0	0	0
50361	1	1	1	1	0	0	0	0	0
50362	1	1	1	1	0	0	0	0	0
n	12	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Gait	Co-ordination of movement	Stage : Day 21		Species : Rat				
			Dose : isoniazide 250 mg/kg	Reactivity to stimuli		Urination	Defecation	Excessive grooming	Unusual head movement
50351	1	1	1	1	1	0	0	0	0
50352	1	1	1	1	1	0	0	0	0
50353	1	1	1	1	1	0	0	0	0
50354	1	1	1	1	1	0	0	0	0
50355	1	1	1	1	1	0	0	0	0
50356	1	1	1	1	1	0	0	0	0
50357	1	1	1	1	1	0	0	0	0
50358	1	1	1	1	1	0	0	0	0
50359	1	1	1	1	1	0	0	0	0
50360	1	1	1	1	1	0	0	0	0
50361	1	1	1	1	1	0	0	0	0
50362	1	1	1	1	1	0	0	0	0
n	12	12	12	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Animal No.	Gait	Co-ordination of movement	Stage : Day 21		Species : Rat				
			Dose : isonanate 1000 mg/kg	Reactivity to stimuli		Urination	Defecation	Excessive grooming	Unusual head movement
50451	1	1	1	1	1	0	0	0	0
50452	1	1	1	1	0	0	0	0	0
50453	1	1	1	1	0	0	0	0	0
50454	1	1	1	1	0	0	0	0	0
50455	1	1	1	1	0	0	0	0	0
50456	1	1	1	1	0	0	0	0	0
50457	1	1	1	1	0	0	0	0	0
50458	1	1	1	1	1	0	0	0	0
50459	1	1	1	1	1	0	0	0	0
50460	1	1	1	1	1	0	0	0	0
50461	1	1	1	1	0	0	0	0	0
50462	1	1	1	1	0	0	0	0	0
n	12	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Gait	Co-ordination of movement	Stage : Day 21		Species : Rat				
			Dose : isonanate 1000 mg/kg	Reactivity to stimuli		Urination	Defecation	Excessive grooming	Unusual head movement
50451	1	1	1	1	1	0	0	0	0
50452	1	1	1	1	1	0	0	0	0
50453	1	1	1	1	1	0	0	0	0
50454	1	1	1	1	1	0	0	0	0
50455	1	1	1	1	1	0	0	0	0
50456	1	1	1	1	1	0	0	0	0
50457	1	1	1	1	1	0	0	0	0
50458	1	1	1	1	1	0	0	0	0
50459	1	1	1	1	1	0	0	0	0
50460	1	1	1	1	1	0	0	0	0
50461	1	1	1	1	1	0	0	0	0
50462	1	1	1	1	1	0	0	0	0
n	12	12	12	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Animal No.	Detailed clinical observation (in the open field)			Stage : Day 28 Dose : isonanate 0 mg/kg	Species : Rat	Unusual head movement
	Gait	Co-ordination of movement	Reactivity to stimuli			
50151	1	1	1	1	0	0
50152	1	1	1	0	0	0
50153	1	1	1	1	0	0
50154	1	1	1	0	0	0
50155	1	1	1	0	0	0
50156	1	1	1	0	0	0
50157	1	1	1	0	0	0
50158	1	1	1	0	0	0
50159	1	1	1	1	0	0
50160	1	1	1	1	0	0
50161	1	1	1	0	0	0
50162	1	1	1	0	0	0
n	12	12	12	12	12	12

Animal No.	Detailed clinical observation (in the open field)			Stage : Day 28 Dose : isonanate 0 mg/kg	Species : Rat	Unusual head movement
	Gait	Co-ordination of movement	Reactivity to stimuli			
50151	1	1	1	1	0	0
50152	1	1	1	0	0	0
50153	1	1	1	1	0	0
50154	1	1	1	1	0	0
50155	1	1	1	1	0	0
50156	1	1	1	0	0	0
50157	1	1	1	1	0	0
50158	1	1	1	0	0	0
50159	1	1	1	1	0	0
50160	1	1	1	1	0	0
50161	1	1	1	0	0	0
50162	1	1	1	0	0	0
n	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.	Walking backward			Species : Rat	Unusual head movement
	Gait	Co-ordination of movement	Reactivity to stimuli		
50151	1	1	1	1	1
50152	1	1	1	1	1
50153	1	1	1	1	1
50154	1	1	1	1	1
50155	1	1	1	1	1
50156	1	1	1	1	1
50157	1	1	1	1	1
50158	1	1	1	1	1
50159	1	1	1	1	1
50160	1	1	1	1	1
50161	1	1	1	1	1
50162	1	1	1	1	1
n	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Animal No.	Detailed clinical observation (in the open field)			Stage : Day 28 Dose : isonanate 60 mg/kg			Species : Rat		
	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination	Defecation	Excessive grooming	Unusual head movement	
50251	1	1	1	1	1	0	0	0	
50252	1	1	1	1	0	0	0	0	
50253	1	1	1	1	0	0	0	0	
50254	1	1	1	1	0	0	0	0	
50255	1	1	1	1	0	0	0	0	
50256	1	1	1	1	0	0	0	0	
50257	1	1	1	1	0	0	0	0	
50258	1	1	1	1	0	0	0	0	
50259	1	1	1	1	0	0	0	0	
50260	1	1	1	1	0	0	0	0	
50261	1	1	1	1	0	0	0	0	
50262	1	1	1	1	1	0	0	0	
n	12	12	12	12	12	12	12	12	

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward			Vocalization			Aggression		
	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination	Defecation	Excessive grooming	Unusual head movement	
50251	1	1	1	1	1	1	1	1	
50252	1	1	1	1	1	1	1	1	
50253	1	1	1	1	1	1	1	1	
50254	1	1	1	1	1	1	1	1	
50255	1	1	1	1	1	1	1	1	
50256	1	1	1	1	1	1	1	1	
50257	1	1	1	1	1	1	1	1	
50258	1	1	1	1	1	1	1	1	
50259	1	1	1	1	1	1	1	1	
50260	1	1	1	1	1	1	1	1	
50261	1	1	1	1	1	1	1	1	
50262	1	1	1	1	1	1	1	1	
n	12	12	12	12	12	12	12	12	

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Animal No.	Gait	Co-ordination of movement	Stage : Day 28		Species : Rat				
			Dose : isoniazide 250 mg/kg	Reactivity to stimuli		Urination	Defecation	Excessive grooming	Unusual head movement
50351	1	1	1	1	1	0	0	0	0
50352	1	1	1	1	0	0	0	0	0
50353	1	1	1	1	0	0	0	0	0
50354	1	1	1	1	0	0	0	0	0
50355	1	1	1	1	0	1	0	0	0
50356	1	1	1	1	0	0	0	0	0
50357	1	1	1	1	0	0	0	0	0
50358	1	1	1	1	0	0	0	0	0
50359	1	1	1	1	0	0	0	0	0
50360	1	1	1	1	0	0	0	0	0
50361	1	1	1	1	1	0	0	0	0
50362	1	1	1	1	0	0	0	0	0
n	12	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward			Species : Rat
	Vocalization	Aggression		
50351	1	1	1	1
50352	1	1	1	1
50353	1	1	1	1
50354	1	1	1	1
50355	1	1	1	1
50356	1	1	1	1
50357	1	1	1	1
50358	1	1	1	1
50359	1	1	1	1
50360	1	1	1	1
50361	1	1	1	1
50362	1	1	1	1
n	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2; Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2; Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2; Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Animal No.	Sex : Female		Gait		Co-ordination of movement		Reactivity to stimuli		Stage : Day 28 Dose : isoniazide 1000 mg/kg		Species : Rat	
50451	1	1	1	1	1	1	1	1	0	0	0	0
50452	1	1	1	1	1	1	1	1	0	0	0	0
50453	1	1	1	1	1	1	1	1	0	0	0	0
50454	1	1	1	1	1	1	1	1	0	0	0	0
50455	1	1	1	1	1	1	1	1	0	0	0	0
50456	1	1	1	1	1	1	1	1	0	0	0	0
50457	1	1	1	1	1	1	1	1	0	0	0	0
50458	1	1	1	1	1	1	1	1	1	0	0	0
50459	1	1	1	1	1	1	1	1	0	0	0	0
50460	1	1	1	1	1	1	1	1	0	0	0	0
50461	1	1	1	1	1	1	1	1	0	0	0	0
50462	1	1	1	1	1	1	1	1	0	0	0	0
n	12	12	12	12	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward			Vocalization			Aggression		
50451	1	1	1	1	1	1	1	1	1
50452	1	1	1	1	1	1	1	1	1
50453	1	1	1	1	1	1	1	1	1
50454	1	1	1	1	1	1	1	1	1
50455	1	1	1	1	1	1	1	1	1
50456	1	1	1	1	1	1	1	1	1
50457	1	1	1	1	1	1	1	1	1
50458	1	1	1	1	1	1	1	1	1
50459	1	1	1	1	1	1	1	1	1
50460	1	1	1	1	1	1	1	1	1
50461	1	1	1	1	1	1	1	1	1
50462	1	1	1	1	1	1	1	1	1
n	12	12	12	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Stage : Day 35

Dose : isonanate 0 mg/kg

Animal No.	Gait	Co-ordination of movement	Reactivity to stimuli	Urination	Defecation	Species : Rat	Unusual head movement
50151	1	1	1	1	0	0	0
50152	1	1	1	0	0	0	0
50153	1	1	1	0	0	0	0
50154	1	1	1	1	0	0	0
50155	1	1	1	0	0	0	0
50156	1	1	1	0	0	0	0
50157	1	1	1	0	0	0	0
50158	1	1	1	0	0	0	0
50159	1	1	1	1	0	0	0
50160	1	1	1	1	0	0	0
50161	1	1	1	1	0	0	0
50162	1	1	1	0	0	0	0
n	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward	Vocalization	Aggression	
50151	1	1	1	1
50152	1	1	1	1
50153	1	1	1	1
50154	1	1	1	1
50155	1	1	1	1
50156	1	1	1	1
50157	1	1	1	1
50158	1	1	1	1
50159	1	1	1	1
50160	1	1	1	1
50161	1	1	1	1
50162	1	1	1	1
n	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2; Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2; Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Stage : Day 35

Animal No.	Gait	Co-ordination of movement	Reactivity to stimuli	Dose : isoniazide 60 mg/kg		Species : Rat	Unusual head movement
				Searching	Urination		
50251	1	1	1	1	1	0	0
50252	1	1	1	1	0	0	0
50253	1	1	1	1	0	0	0
50254	1	1	1	1	0	0	0
50255	1	1	1	1	0	0	0
50256	1	1	1	1	0	0	0
50257	1	1	1	1	0	0	0
50258	1	1	1	1	0	0	0
50259	1	1	1	1	0	0	0
50260	1	1	1	1	0	0	0
50261	1	1	1	1	0	0	0
50262	1	1	1	1	0	0	0
n	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

-

Animal No.	Gait	Co-ordination of movement	Reactivity to stimuli	Dose : isoniazide 60 mg/kg		Species : Rat	Unusual head movement
				Searching	Urination		
50251	1	1	1	1	1	0	0
50252	1	1	1	1	1	0	0
50253	1	1	1	1	1	0	0
50254	1	1	1	1	1	0	0
50255	1	1	1	1	1	0	0
50256	1	1	1	1	1	0	0
50257	1	1	1	1	1	0	0
50258	1	1	1	1	1	0	0
50259	1	1	1	1	1	0	0
50260	1	1	1	1	1	0	0
50261	1	1	1	1	1	0	0
50262	1	1	1	1	1	0	0
n	12	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Animal No.	Sex : Female		Gait		Co-ordination of movement		Reactivity to stimuli		Stage : Day 35 Dose : isoniazide 250 mg/kg		Urination		Defecation		Species : Rat		
	n	%															
50351	1	1							1	1	0	0	0	0	0	0	0
50352	1	1							1	1	0	0	0	0	0	0	0
50353	1	1							1	1	0	0	0	0	0	0	0
50354	1	1							1	1	0	0	0	0	0	0	0
50355	1	1							1	1	0	0	0	0	0	0	0
50356	1	1							1	1	0	0	0	0	0	0	0
50357	1	1							1	1	0	0	0	0	0	0	0
50358	1	1							1	1	0	0	0	0	0	0	0
50359	1	1							1	1	0	0	0	0	0	0	0
50360	1	1							1	1	0	0	0	0	0	0	0
50361	1	1							1	1	0	1	0	0	0	0	0
50362	1	1							1	1	0	0	0	0	0	0	0
n	12	12							12	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.	Walking backward			Vocalization			Aggression		
	n	%							
50351	1	1		1	1	1	1	1	1
50352	1	1		1	1	1	1	1	1
50353	1	1		1	1	1	1	1	1
50354	1	1		1	1	1	1	1	1
50355	1	1		1	1	1	1	1	1
50356	1	1		1	1	1	1	1	1
50357	1	1		1	1	1	1	1	1
50358	1	1		1	1	1	1	1	1
50359	1	1		1	1	1	1	1	1
50360	1	1		1	1	1	1	1	1
50361	1	1		1	1	1	1	1	1
50362	1	1		1	1	1	1	1	1
n	12	12		12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Animal No.	Sex : Female		Gait		Co-ordination of movement		Reactivity to stimuli		Stage : Day 35 Dose : isoniazide 1000 mg/kg		Species : Rat	
50451	1	1	1	1	1	1	1	1	0	0	0	0
50452	1	1	1	1	1	1	1	1	0	0	0	0
50453	1	1	1	1	1	1	1	1	0	0	0	0
50454	1	1	1	1	1	1	1	1	0	0	0	0
50455	1	1	1	1	1	1	1	1	0	0	0	0
50456	1	1	1	1	1	1	1	1	0	0	0	0
50457	1	1	1	1	1	1	1	1	0	0	0	0
50458	1	1	1	1	1	1	1	1	0	0	0	0
50459	1	1	1	1	1	1	1	1	0	0	0	0
50460	1	1	1	1	1	1	1	1	0	0	0	0
50461	1	1	1	1	1	1	1	1	0	0	0	0
50462	1	1	1	1	1	1	1	1	0	0	0	0
n	12	12	12	12	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward			Vocalization			Aggression		
50451	1	1	1	1	1	1	1	1	1
50452	1	1	1	1	1	1	1	1	1
50453	1	1	1	1	1	1	1	1	1
50454	1	1	1	1	1	1	1	1	1
50455	1	1	1	1	1	1	1	1	1
50456	1	1	1	1	1	1	1	1	1
50457	1	1	1	1	1	1	1	1	1
50458	1	1	1	1	1	1	1	1	1
50459	1	1	1	1	1	1	1	1	1
50460	1	1	1	1	1	1	1	1	1
50461	1	1	1	1	1	1	1	1	1
50462	1	1	1	1	1	1	1	1	1
n	12	12	12	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Dose : Day 42

Dose : isoniazide 0 mg/kg

Animal No.	Gait	Co-ordination of movement	Reactivity to stimuli	Urination	Defecation	Species : Rat	Unusual head movement
50151	1	1	1	1	0	0	0
50152	1	1	1	0	0	0	0
50153	1	1	1	0	0	0	0
50154	1	1	1	1	0	0	0
50155	1	1	1	0	0	0	0
50156	1	1	1	0	0	0	0
50157	1	1	1	0	0	1	0
50159	1	1	1	0	0	0	0
50160	1	1	1	0	0	0	0
50161	1	1	1	0	0	1	0
50162	1	1	1	0	0	0	0
n	11	11	11	11	11	11	11

Animal No.	Walking backward	Vocalization	Aggression
50151	1	1	1
50152	1	1	1
50153	1	1	1
50154	1	1	1
50155	1	1	1
50156	1	1	1
50157	1	1	1
50159	1	1	1
50160	1	1	1
50161	1	1	1
50162	1	1	1
n	11	11	11

Gait) 0:Not moved, 1:Normal, 2:Difficult to walk, 3:Unable to walk, paralytic.
 Co-ordination of movement) 0:Staggering (ataxic), 1:Normal.
 Reactivity to stimuli) 0:Not present, 1:Present (to noise, etc.).
 Searching) 0:Not present, 1:Present (sniffing, standing, etc.).
 Urination) 0:Not present, 1:Present.
 Defecation) 0:Not present, 1:Present.
 Stereotype/Excessive grooming) 0:Not present, 1:Sometimes, 2:Frequently.
 Stereotype/Unusual head movement) 0:Not present, 1:Sometimes, 2:Frequently.
 Bizarre behavior/Walking backward) 1:Not present, 2:Present.
 Aggression) 1:Not present, sometimes, 2:Present, frequently.

Detailed clinical observation (in the open field)

Sex : Female

Animal No.	Stage : Day 42		
	Gait	Co-ordination of movement	Reactivity to stimuli
50251	1	1	1
50252	1	1	1
50253	1	1	1
50254	1	1	1
50255	1	1	1
50256	1	1	1
50257	1	1	1
50258	1	1	1
50259	1	1	1
50260	1	1	1
50261	1	1	1
50262	1	1	1
n	12	12	12

Sex : Female

Animal No.	Stage : Day 42		
	Dose : isoniazide 60 mg/kg	Searching	Urination
50251	1	1	1
50252	1	0	0
50253	1	1	0
50254	1	0	0
50255	1	0	0
50256	1	0	0
50257	1	0	0
50258	1	0	0
50259	1	0	0
50260	1	0	0
50261	1	0	0
50262	1	0	0
n	12	12	12

Species : Rat

Animal No.	Species : Rat		
	Defecation	Excessive grooming	Unusual head movement
50251	0	0	1
50252	0	0	0
50253	0	0	0
50254	0	0	0
50255	0	0	0
50256	0	0	0
50257	0	0	0
50258	0	0	0
50259	0	0	0
50260	0	0	0
50261	0	0	0
50262	0	0	0
n	12	12	12

Walking backward

Vocalization

Aggression

Animal No.	Aggression		
	Walking backward	Vocalization	Aggression
50251	1	1	1
50252	1	1	1
50253	1	1	1
50254	1	1	1
50255	1	1	1
50256	1	1	1
50257	1	1	1
50258	1	1	1
50259	1	1	1
50260	1	1	1
50261	1	1	1
50262	1	1	1
n	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Dose : Day 42

Dose : isoniazide 250 mg/kg

Animal No.	Gait	Co-ordination of movement	Reactivity to stimuli	Stage : Day 42	
				Searching	Urination
50351	1	1	1	1	0
50352	1	1	1	0	0
50353	1	1	1	0	0
50355	1	1	1	0	0
50356	1	1	1	0	0
50357	1	1	1	0	0
50358	1	1	1	0	0
50359	1	1	1	0	0
50360	1	1	1	0	0
50361	1	1	1	1	0
50362	1	1	1	0	0
n	11	11	11	11	11

Walking backward
Vocalization
Aggression

Animal No.	Gait	Co-ordination of movement	Reactivity to stimuli	Species : Rat	
				Defecation	Excessive grooming
50351	1	1	1	1	0
50352	1	1	1	0	0
50353	1	1	1	0	0
50355	1	1	1	0	0
50356	1	1	1	0	0
50357	1	1	1	0	0
50358	1	1	1	0	0
50359	1	1	1	0	0
50360	1	1	1	0	0
50361	1	1	1	1	0
50362	1	1	1	0	0
n	11	11	11	11	11

Gait) 0:Not moved, 1:Normal, 2:Difficult to walk, 3:Unable to walk, paralytic.
 Co-ordination of movement) 0:Staggering (ataxic), 1:Normal.
 Reactivity to stimuli) 0:Not present, 1:Present (to noise, etc.).
 Searching) 0:Not present, 1:Present (sniffing, standing, etc.).
 Urination) 0:Not present, 1:Present.
 Defecation) 0:Not present, 1:Present.
 Stereotype/Excessive grooming) 0:Not present, 1:Sometimes, 2:Frequently.
 Stereotype/Unusual head movement) 0:Not present, 1:Sometimes, 2:Frequently.
 Bizarre behavior/Walking backward) 1:Not present, 2:Present.
 Bizarre behavior/Vocalization) 1:Not present, sometimes, 2:Present, frequently.
 Aggression) 1:Not present, 2:Present.

Detailed clinical observation (in the open field)

Animal No.	Sex : Female		Gait		Co-ordination of movement		Reactivity to stimuli		Stage : Day 42 Dose : isoniazide 1000 mg/kg		Species : Rat	
50451	1	1	1	1	1	1	1	1	0	0	0	0
50452	1	1	1	1	1	1	1	1	1	0	0	0
50453	1	1	1	1	1	1	1	1	0	0	0	0
50454	1	1	1	1	1	1	1	1	0	0	0	0
50455	1	1	1	1	1	1	1	1	0	0	0	0
50456	1	1	1	1	1	1	1	1	0	0	0	0
50457	1	1	1	1	1	1	1	1	0	0	0	0
50458	1	1	1	1	1	1	1	1	0	0	0	0
50459	1	1	1	1	1	1	1	1	0	0	0	0
50460	1	1	1	1	1	1	1	1	0	0	0	0
50461	1	1	1	1	1	1	1	1	0	0	0	0
50462	1	1	1	1	1	1	1	1	1	0	0	0
n	12	12	12	12	12	12	12	12	12	12	12	12

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward			Vocalization			Aggression		
50451	1	1	1	1	1	1	1	1	1
50452	1	1	1	1	1	1	1	1	1
50453	1	1	1	1	1	1	1	1	1
50454	1	1	1	1	1	1	1	1	1
50455	1	1	1	1	1	1	1	1	1
50456	1	1	1	1	1	1	1	1	1
50457	1	1	1	1	1	1	1	1	1
50458	1	1	1	1	1	1	1	1	1
50459	1	1	1	1	1	1	1	1	1
50460	1	1	1	1	1	1	1	1	1
50461	1	1	1	1	1	1	1	1	1
50462	1	1	1	1	1	1	1	1	1
n	12	12	12	12	12	12	12	12	12

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Animal No.	Detailed clinical observation (in the open field)			Stage : Day 49		
	Gait	Co-ordination of movement	Reactivity to stimuli	Dose : isoniazide 0 mg/kg	Searching	Urination
50151	1	1	1	1	1	0
50152	1	1	1	1	0	0
50153	1	1	1	1	0	0
50154	1	1	1	1	0	0
50155	1	1	1	1	0	0
50156	1	1	1	1	0	0
50157	1	1	1	1	0	0
50159	1	1	1	1	0	0
50160	1	1	1	1	0	0
50161	1	1	1	1	0	0
50162	1	1	1	1	0	0
n	11	11	11	11	11	11

Animal No.	Aggression		
	Walking backward	Vocalization	Aggression
50151	1	1	1
50152	1	1	1
50153	1	1	1
50154	1	1	1
50155	1	1	1
50156	1	1	1
50157	1	1	1
50159	1	1	1
50160	1	1	1
50161	1	1	1
50162	1	1	1
n	11	11	11

Gait) 0:Not moved, 1:Normal, 2:Difficult to walk, 3:Unable to walk, paralytic.

Co-ordination of movement) 0:Staggering (ataxic), 1:Normal.

Reactivity to stimuli) 0:Not present, 1:Present (to noise, etc.).

Searching) 0:Not present, 1:Present (sniffing, standing, etc.).

Urination) 0:Not present, 1:Present.

Defecation) 0:Not present, 1:Present.

Stereotype/Excessive grooming) 0:Not present, 1:Sometimes, 2:Frequently.

Stereotype/Unusual head movement) 0:Not present, 1:Sometimes, 2:Frequently.

Bizarre behavior/Walking backward) 1:Not present, 2:Present.

Aggression) 1:Not present, sometimes, 2:Present, frequently.

Detailed clinical observation (in the open field)

Sex : Female

Animal No.	Detailed clinical observation (in the open field)			Stage : Day 49 Dose : isonanate 60 mg/kg			Species : Rat		
	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination	Defecation	Excessive grooming	Unusual head movement	
50251	1	1	1	1	1	0	0	0	
50252	1	1	1	1	0	0	0	0	
50253	1	1	1	1	0	0	0	0	
50254	1	1	1	1	0	0	1	0	
50255	1	1	1	1	0	0	0	0	
50256	1	1	1	1	0	0	0	0	
50257	1	1	1	1	0	0	0	0	
50258	1	1	1	1	0	0	0	0	
50259	1	1	1	1	0	0	0	0	
50260	1	1	1	1	0	0	1	0	
50261	1	1	1	1	0	0	0	0	
50262	1	1	1	1	0	0	0	0	
n	12	12	12	12	12	12	12	12	

Walking backward

Vocalization

Aggression

Animal No.

Animal No.	Walking backward			Vocalization			Aggression		
	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination	Defecation	Excessive grooming	Unusual head movement	
50251	1	1	1	1	1	1	1	1	
50252	1	1	1	1	1	1	1	1	
50253	1	1	1	1	1	1	1	1	
50254	1	1	1	1	1	1	1	1	
50255	1	1	1	1	1	1	1	1	
50256	1	1	1	1	1	1	1	1	
50257	1	1	1	1	1	1	1	1	
50258	1	1	1	1	1	1	1	1	
50259	1	1	1	1	1	1	1	1	
50260	1	1	1	1	1	1	1	1	
50261	1	1	1	1	1	1	1	1	
50262	1	1	1	1	1	1	1	1	
n	12	12	12	12	12	12	12	12	

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Animal No.	Sex : Female		Gait		Co-ordination of movement		Reactivity to stimuli		Stage : Day 49 Dose : isonanate 250 mg/kg		Species : Rat	
	Gait	Co-ordination of movement	Reactivity to stimuli	Urination	Defecation	Excessive grooming	Unusual head movement					
50351	1	1	1	1	1	0	0					
50352	1	1	1	0	0	0	0					
50353	1	1	1	0	0	0	0					
50355	1	1	1	1	0	0	0					
50356	1	1	1	1	0	0	0					
50357	1	1	1	1	0	0	0					
50358	1	1	1	0	0	0	0					
50359	1	1	1	0	0	0	0					
50361	1	1	1	1	0	1	0					
50362	1	1	1	0	0	0	0					
n	10	10	10	10	10	10	10					

Walking backward

Animal No.	Vocalization		Aggression	
	Walking backward	Vocalization	Aggression	Aggression
50351	1	1	1	1
50352	1	1	1	1
50353	1	1	1	1
50355	1	1	1	1
50356	1	1	1	1
50357	1	1	1	1
50358	1	1	1	1
50359	1	1	1	1
50361	1	1	1	1
50362	1	1	1	1
n	10	10	10	10

Gait 0;Not moved, 1;Normal, 2; Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli 0;Not present, 1;Present (to noise, etc.).

Searching 0;Not present, 1;Present (sniffing, standing, etc.).

Urination 0;Not present, 1;Present.

Defecation 0;Not present, 1;Present.

Stereotype/Excessive grooming 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Vocalization 1;Not present, sometimes, 2;Present, frequently.

Aggression 1;Not present, 2;Present.

Detailed clinical observation (in the open field)

Sex : Female

Stage : Day 49

Dose : isonanate 1000 mg/kg

Animal No.	Gait	Co-ordination of movement	Reactivity to stimuli	Searching	Urination	Defecation	Species : Rat	Excessive grooming	Unusual head movement
50451	1	1	1	1	0	0	0	0	0
50452	1	1	1	1	0	0	0	0	0
50453	1	1	1	1	0	0	0	0	0
50454	1	1	1	1	0	0	0	0	0
50455	1	1	1	1	1	0	1	0	0
50456	1	1	1	1	1	0	0	0	0
50457	1	1	1	1	1	0	0	0	0
50458	1	1	1	1	1	1	0	0	0
50459	1	1	1	1	0	0	0	0	0
50460	1	1	1	1	1	0	0	0	0
n	11	11	11	11	11	11	11	11	11

Walking backward
Vocalization
Aggression

Animal No.

Animal No.	Walking backward	Vocalization	Aggression
50451	1	1	1
50452	1	1	1
50453	1	1	1
50454	1	1	1
50455	1	1	1
50456	1	1	1
50457	1	1	1
50458	1	1	1
50459	1	1	1
50460	1	1	1
n	11	11	11

Gait) 0:Not moved, 1:Normal, 2:Difficult to walk, 3:Unable to walk, paralytic.
 Co-ordination of movement) 0:Staggering (ataxic), 1:Normal.
 Reactivity to stimuli) 0:Not present, 1:Present (to noise, etc.).
 Searching) 0:Not present, 1:Present (sniffing, standing, etc.).
 Urination) 0:Not present, 1:Present.
 Defecation) 0:Not present, 1:Present.
 Stereotype/Excessive grooming) 0:Not present, 1:Sometimes, 2:Frequently.
 Stereotype/Unusual head movement) 0:Not present, 1:Sometimes, 2:Frequently.
 Bizarre behavior/Walking backward) 1:Not present, 2:Present.
 Bizarre behavior/Vocalization) 1:Not present, sometimes, 2:Present, frequently.
 Aggression) 1:Not present, 2:Present.

Animal No.	Detailed clinical observation (in the open field)		Stage : Pre	
	Sex : Female (satellite)	Gait	Co-ordination of movement	Dose : Isononane 0 mg/kg
50551	1	1	1	1
50552	1	1	1	0
50553	1	1	1	0
50554	1	1	1	0
50555	1	1	1	0
50556	1	1	1	0
50557	1	1	1	0
50558	1	1	1	0
50559	1	1	1	0
50560	1	1	1	0
n	10	10	10	10

Animal No.	Aggression		
	Walking backward	Vocalization	Aggression
50551	1	1	1
50552	1	1	1
50553	1	1	1
50554	1	1	1
50555	1	1	1
50556	1	1	1
50557	1	1	1
50558	1	1	1
50559	1	1	1
50560	1	1	1
n	10	10	10

Gait) 0;Not moved, 1;Normal 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the open field)		Stage : Pre	
	Sex : Female (satellite)	Gait	Co-ordination of movement	Dose : Isoniazide 1000 mg/kg
50651	1	1	1	1
50652	1	1	1	1
50653	1	1	1	1
50654	1	1	1	1
50655	1	1	1	1
50656	1	1	1	1
50657	1	1	1	1
50658	1	1	1	1
50659	1	1	1	1
50660	1	1	1	1
n	10	10	10	10

Animal No.	Walking backward		Vocalization	Aggression
	Reactivity to stimuli	Searching	Urination	Defecation
50651	1	1	1	1
50652	1	1	1	1
50653	1	1	1	1
50654	1	1	1	1
50655	1	1	1	1
50656	1	1	1	1
50657	1	1	1	1
50658	1	1	1	1
50659	1	1	1	1
50660	1	1	1	1
n	10	10	10	10

Gait) 0;Not moved, 1;Normal 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the open field)		Stage : Day 7	
	Sex : Female (satellite)	Gait	Co-ordination of movement	Reactivity to stimuli
50551	1	1	1	1
50552	1	1	1	1
50553	1	1	1	1
50554	1	1	1	1
50555	1	1	1	1
50556	1	1	1	1
50557	1	1	1	1
50558	1	1	1	1
50559	1	1	1	1
50560	1	1	1	1
n	10	10	10	10

Animal No.	Stage : Isoniazide 0 mg/kg		
	Walking backward	Vocalization	Aggression
50551	1	1	1
50552	1	1	1
50553	1	1	1
50554	1	1	1
50555	1	1	1
50556	1	1	1
50557	1	1	1
50558	1	1	1
50559	1	1	1
50560	1	1	1
n	10	10	10

Gait) 0;Not moved, 1;Normal 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the open field)		Stage : Day 7	
	Sex : Female (satellite)	Gait	Co-ordination of movement	Reactivity to stimuli
50651	1	1	1	1
50653	1	1	1	1
50654	1	1	1	1
50655	1	1	1	1
50656	1	1	1	1
50657	1	1	1	1
50658	1	1	1	1
50659	1	1	1	1
50660	1	1	1	1
n	9	9	9	9

Animal No.	Stage : Isoniazide 1000 mg/kg		
	Walking backward	Vocalization	Aggression
50651	1	1	1
50653	1	1	1
50654	1	1	1
50655	1	1	1
50656	1	1	1
50657	1	1	1
50658	1	1	1
50659	1	1	1
50660	1	1	1
n	9	9	9

Gait) 0:Not moved, 1:Normal, 2: Difficult to walk, 3: Unable to walk, paralytic.
 Co-ordination of movement) 0:Staggering (ataxic), 1:Normal.
 Reactivity to stimuli) 0:Not present, 1:Present (to noise, etc.).
 Searching) 0:Not present, 1:Present (sniffing, standing, etc.).
 Urination) 0:Not present, 1:Present.
 Defecation) 0:Not present, 1:Present.
 Stereotype/Excessive grooming) 0:Not present, 1:Sometimes, 2:Frequently.
 Stereotype/Unusual head movement) 0:Not present, 1:Sometimes, 2:Frequently.
 Bizarre behavior/Walking backward) 1:Not present, 2:Present.
 Bizarre behavior/Vocalization) 1:Not present, sometimes, 2:Present, frequently.
 Aggression) 1:Not present, 2:Present.

Animal No.	Detailed clinical observation (in the open field)		Stage : Day 14	
	Sex : Female (satellite)	Gait	Co-ordination of movement	Dose : Isoniazide 0 mg/kg
50551	1	1	1	1
50552	1	1	1	1
50553	1	1	1	1
50554	1	1	1	1
50555	1	1	1	1
50556	1	1	1	1
50557	1	1	1	1
50558	1	1	1	1
50559	1	1	1	1
50560	1	1	1	1
n	10	10	10	10

Animal No.	Species : Rat		
	Defecation	Excessive grooming	Unusual head movement
50551	0	0	0
50552	0	0	0
50553	0	0	0
50554	0	0	0
50555	0	0	0
50556	0	0	0
50557	0	0	0
50558	0	0	0
50559	0	0	0
50560	0	1	0
n	10	10	10

Gait) 0;Not moved, 1;Normal 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the open field)		Stage : Day 14	
	Sex : Female (satellite)	Gait	Co-ordination of movement	Dose : Isoniazide 1000 mg/kg
50651	1	1	1	1
50653	1	1	1	1
50654	1	1	1	1
50655	1	1	1	1
50656	1	1	1	1
50657	1	1	1	1
50658	1	1	1	1
50659	1	1	1	1
50660	1	1	1	1
n	9	9	9	9

Animal No.	Aggression		
	Walking backward	Vocalization	Aggression
50651	1	1	1
50653	1	1	1
50654	1	1	1
50655	1	1	1
50656	1	1	1
50657	1	1	1
50658	1	1	1
50659	1	1	1
50660	1	1	1
n	9	9	9

Gait) 0:Not moved, 1:Normal, 2: Difficult to walk, 3: Unable to walk, paralytic.
 Co-ordination of movement) 0:Staggering (ataxic), 1:Normal.
 Reactivity to stimuli) 0:Not present, 1:Present (to noise, etc.).
 Searching) 0:Not present, 1:Present (sniffing, standing, etc.).
 Urination) 0:Not present, 1:Present.
 Defecation) 0:Not present, 1:Present.
 Stereotype/Excessive grooming) 0:Not present, 1:Sometimes, 2:Frequently.
 Stereotype/Unusual head movement) 0:Not present, 1:Sometimes, 2:Frequently.
 Bizarre behavior(Walking backward) 1:Not present, 2:Present.
 Bizarre behavior/Vocalization) 1:Not present, sometimes, 2:Present, frequently.
 Aggression) 1:Not present, 2:Present.

Animal No.	Detailed clinical observation (in the open field)		Stage : Day 21	
	Sex : Female (satellite)	Gait	Co-ordination of movement	Dose : Isoniazide 0 mg/kg
50551	1	1	1	1
50552	1	1	1	0
50553	1	1	1	0
50554	1	1	1	0
50555	1	1	1	0
50556	1	1	1	0
50557	1	1	1	0
50558	1	1	1	0
50559	1	1	1	0
50560	1	1	1	0
n	10	10	10	10

Animal No.	Species : Rat		
	Defecation	Excessive grooming	Unusual head movement
50551	1	0	0
50552	0	0	0
50553	0	0	0
50554	0	0	0
50555	0	0	0
50556	0	0	0
50557	0	0	0
50558	0	0	0
50559	0	0	0
50560	0	0	0
n	10	10	10

Gait) 0;Not moved, 1;Normal 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the open field)		Stage : Day 21	
	Sex : Female (satellite)	Gait	Co-ordination of movement	Dose : Isoniazide 1000 mg/kg
50651	1	1	1	1
50653	1	1	1	1
50654	1	1	1	1
50655	1	1	1	1
50656	1	1	1	1
50657	1	1	1	1
50658	1	1	1	1
50659	1	1	1	1
50660	1	1	1	1
n	9	9	9	9

Animal No.	Aggression		
	Walking backward	Vocalization	Aggression
50651	1	1	1
50653	1	1	1
50654	1	1	1
50655	1	1	1
50656	1	1	1
50657	1	1	1
50658	1	1	1
50659	1	1	1
50660	1	1	1
n	9	9	9

Gait) 0:Not moved, 1:Normal, 2: Difficult to walk, 3: Unable to walk, paralytic.
 Co-ordination of movement) 0:Staggering (ataxic), 1:Normal.
 Reactivity to stimuli) 0:Not present, 1:Present (to noise, etc.).
 Searching) 0:Not present, 1:Present (sniffing, standing, etc.).
 Urination) 0:Not present, 1:Present.
 Defecation) 0:Not present, 1:Present.
 Stereotype/Excessive grooming) 0:Not present, 1:Sometimes, 2:Frequently.
 Stereotype/Unusual head movement) 0:Not present, 1:Sometimes, 2:Frequently.
 Bizarre behavior/Walking backward) 1:Not present, 2:Present.
 Bizarre behavior/Vocalization) 1:Not present, sometimes, 2:Present, frequently.
 Aggression) 1:Not present, 2:Present.

Animal No.	Detailed clinical observation (in the open field)		Stage : Day 28	
	Sex : Female (satellite)	Gait	Co-ordination of movement	Dose : Isoniazide 0 mg/kg
50551	1	1	1	1
50552	1	1	1	1
50553	1	1	1	1
50554	1	1	1	1
50555	1	1	1	1
50556	1	1	1	1
50557	1	1	1	1
50558	1	1	1	1
50559	1	1	1	1
50560	1	1	1	1
n	10	10	10	10

Animal No.	Species : Rat		
	Defecation	Excessive grooming	Unusual head movement
50551	0	0	0
50552	0	0	0
50553	0	0	0
50554	0	0	0
50555	0	0	0
50556	0	0	0
50557	0	0	0
50558	0	0	0
50559	0	0	0
50560	0	0	0
n	10	10	10

Gait) 0;Not moved, 1;Normal 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the open field)		Stage : Day 28	
	Sex : Female (satellite)	Gait	Co-ordination of movement	Dose : Isoniazide 1000 mg/kg
50651	1	1	1	1
50653	1	1	1	1
50654	1	1	1	1
50655	1	1	1	1
50656	1	1	1	1
50657	1	1	1	1
50658	1	1	1	1
50659	1	1	1	1
50660	1	1	1	1
n	9	9	9	9

Animal No.	Aggression		
	Walking backward	Vocalization	Aggression
50651	1	1	1
50653	1	1	1
50654	1	1	1
50655	1	1	1
50656	1	1	1
50657	1	1	1
50658	1	1	1
50659	1	1	1
50660	1	1	1
n	9	9	9

Gait) 0:Not moved, 1:Normal, 2: Difficult to walk, 3: Unable to walk, paralytic.
 Co-ordination of movement) 0:Staggering (ataxic), 1:Normal.
 Reactivity to stimuli) 0:Not present, 1:Present (to noise, etc.).
 Searching) 0:Not present, 1:Present (sniffing, standing, etc.).
 Urination) 0:Not present, 1:Present.
 Defecation) 0:Not present, 1:Present.
 Stereotype/Excessive grooming) 0:Not present, 1:Sometimes, 2:Frequently.
 Stereotype/Unusual head movement) 0:Not present, 1:Sometimes, 2:Frequently.
 Bizarre behavior/Walking backward) 1:Not present, 2:Present.
 Bizarre behavior/Vocalization) 1:Not present, sometimes, 2:Present, frequently.
 Aggression) 1:Not present, 2:Present.

Animal No.	Detailed clinical observation (in the open field)			Stage : Recovery Day 7		
	Sex : Male	Gait	Co-ordination of movement	Reactivity to stimuli	Dose : Isononate 0 mg/kg	Urination
10101	1	1	1	1	1	1
10105	1	1	1	1	0	0
10108	1	1	1	1	0	0
10109	1	1	1	1	0	0
10112	1	1	1	1	0	0
n	5	5	5	5	5	5

Animal No.	Walking backward			Vocalization		
	Aggression					
10101	1	1	1	1	1	1
10105	1	1	1	1	1	1
10108	1	1	1	1	1	1
10109	1	1	1	1	1	1
10112	1	1	1	1	1	1
n	5	5	5	5	5	5

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the open field)			Stage : Recovery Day 7		
	Sex : Male Gait	Co-ordination of movement	Reactivity to stimuli	Dose : Isononane 1000 mg/kg Searching	Urination	Defecation
10401	1	1	1	1	0	0
10405	1	1	1	1	0	0
10407	1	1	1	1	0	0
10409	1	1	1	1	0	0
10412	1	1	1	1	0	0
n	5	5	5	5	5	5

Animal No.	Walking backward			Aggression		
	Vocalization	Aggression				
10401	1	1	1			
10405	1	1	1			
10407	1	1	1			
10409	1	1	1			
10412	1	1	1			
n	5	5	5			

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.
 Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.
 Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).
 Searching) 0;Not present, 1;Present (sniffing, standing, etc.).
 Urination) 0;Not present, 1;Present.
 Defecation) 0;Not present, 1;Present.
 Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.
 Bizarre behavior/Walking backward) 1;Not present, 2;Present.
 Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.
 Aggression) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the open field)			Stage : Recovery Day 14		
	Sex : Male	Gait	Co-ordination of movement	Reactivity to stimuli	Dose : Isononate 0 mg/kg	Urination
10101	1	1	1	1	1	1
10105	1	1	1	1	0	0
10108	1	1	1	1	0	0
10109	1	1	1	1	0	0
10112	1	1	1	1	0	0
n	5	5	5	5	5	5

Animal No.	Walking backward			Vocalization		
	Aggression					
10101	1	1	1	1	1	1
10105	1	1	1	1	1	1
10108	1	1	1	1	1	1
10109	1	1	1	1	1	1
10112	1	1	1	1	1	1
n	5	5	5	5	5	5

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.
 Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.
 Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).
 Searching) 0;Not present, 1;Present (sniffing, standing, etc.).
 Urination) 0;Not present, 1;Present.
 Defecation) 0;Not present, 1;Present.
 Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.
 Bizarre behavior/Walking backward) 1;Not present, 2;Present.
 Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.
 Aggression) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the open field)			Stage : Recovery Day 14			Species : Rat			
	Sex : Male	Gait	Co-ordination of movement	Reactivity to stimuli	Dose : Isoniazide 1000 mg/kg	Urination		Defecation	Excessive grooming	Unusual head movement
10401	1	1	1	1	1	0	0	0	0	0
10405	1	1	1	1	1	0	0	0	0	0
10407	1	1	1	1	1	0	0	0	0	0
10409	1	1	1	1	1	0	0	0	0	0
10412	1	1	1	1	1	0	0	0	0	0
n	5	5	5	5	5	5	5	5	5	5

Animal No.	Walking backward			Vocalization			Aggression		
	Walking backward	Vocalization	Aggression	Walking backward	Vocalization	Aggression	Walking backward	Vocalization	Aggression
10401	1	1	1	1	1	1	1	1	1
10405	1	1	1	1	1	1	1	1	1
10407	1	1	1	1	1	1	1	1	1
10409	1	1	1	1	1	1	1	1	1
10412	1	1	1	1	1	1	1	1	1
n	5	5	5	5	5	5	5	5	5

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the open field)		Stage : Recovery Day 7		Species : Rat
	Sex : Female (satellite)	Gait	Co-ordination of movement	Reactivity to stimuli	
50556	1	1	1	1	1
50557	1	1	1	1	0
50558	1	1	1	0	0
50559	1	1	1	0	0
50560	1	1	1	1	0
n	5	5	5	5	5

Animal No.	Walking backward			Vocalization			Aggression		
	Reactivity to stimuli	Co-ordination of movement	Urination	Defecation	Excessive grooming	Unusual head movement			
50556	1	1	1	1	1	1			
50557	1	1	1	1	1	1			
50558	1	1	1	1	1	1			
50559	1	1	1	1	1	1			
50560	1	1	1	1	1	1			
n	5	5	5	5	5	5			

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).
Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.
Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.
Aggression) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the open field)			Stage : Recovery Day 7			Species : Rat			
	Sex : Female (satellite)	Gait	Co-ordination of movement	Reactivity to stimuli	Dose : Isononane 1000 mg/kg	Urination		Defecation	Excessive grooming	Unusual head movement
50656	1	1	1	1	1	0	0	0	0	0
50657	1	1	1	1	1	0	0	0	0	0
50658	1	1	1	1	1	0	0	0	0	0
50659	1	1	1	1	1	0	0	0	0	0
50660	1	1	1	1	1	0	0	0	0	0
n	5	5	5	5	5	5	5	5	5	5
<hr/>										
Animal No.	Walking backward			Vocalization			Aggression			
	50656	1	1	1	1	1				
50657	1	1	1	1	1	1				
50658	1	1	1	1	1	1				
50659	1	1	1	1	1	1				
50660	1	1	1	1	1	1				
n	5	5	5	5	5	5				

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).
Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.
Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.
Aggression) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the open field)			Stage : Recovery Day 14		
	Sex : Female (satellite)	Gait	Co-ordination of movement	Dose : Isononate 0 mg/kg	Reactivity to stimuli	Urination
50556	1	1	1	1	1	1
50557	1	1	1	1	0	0
50558	1	1	1	1	0	0
50559	1	1	1	1	0	0
50560	1	1	1	1	0	0
n	5	5	5	5	5	5

Animal No.	Walking backward			Aggression		
	Vocalization	Aggression	Aggression	Urination	Defecation	Species : Rat
50556	1	1	1	1	0	0
50557	1	1	1	1	0	0
50558	1	1	1	1	0	0
50559	1	1	1	1	0	0
50560	1	1	1	1	0	0
n	5	5	5	5	5	5

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.
 Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.
 Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).
 Searching) 0;Not present, 1;Present (sniffing, standing, etc.).
 Urination) 0;Not present, 1;Present.
 Defecation) 0;Not present, 1;Present.
 Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.
 Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.
 Bizarre behavior/Walking backward) 1;Not present, 2;Present.
 Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.
 Aggression) 1;Not present, 2;Present.

Animal No.	Detailed clinical observation (in the open field)			Stage : Recovery Day 14			Species : Rat
	Sex : Female (satellite)		Co-ordination of movement	Dose : Isononane 1000 mg/kg		Species : Rat	
	Gait	Reactivity to stimuli	Searching	Urination	Defecation	Excessive grooming	
50656	1	1	1	1	0	0	0
50657	1	1	1	1	0	0	0
50658	1	1	1	1	0	0	0
50659	1	1	1	1	0	0	0
50660	1	1	1	1	0	0	0
n	5	5	5	5	5	5	5

Animal No.	Walking backward			Vocalization			Aggression		
50656	1		1		1	1			
50657	1		1		1	1			
50658	1		1		1	1			
50659	1		1		1	1			
50660	1		1		1	1			
n	5		5		5	5			

Gait) 0;Not moved, 1;Normal, 2;Difficult to walk, 3;Unable to walk, paralytic.

Co-ordination of movement) 0;Staggering (ataxic), 1;Normal.

Reactivity to stimuli) 0;Not present, 1;Present (to noise, etc.).

Searching) 0;Not present, 1;Present (sniffing, standing, etc.).

Urination) 0;Not present, 1;Present.

Defecation) 0;Not present, 1;Present.

Stereotype/Excessive grooming) 0;Not present, 1;Sometimes, 2;Frequently.

Stereotype/Unusual head movement) 0;Not present, 1;Sometimes, 2;Frequently.

Bizarre behavior/Walking backward) 1;Not present, 2;Present.

Bizarre behavior/Vocalization) 1;Not present, sometimes, 2;Present, frequently.

Aggression) 1;Not present, 2;Present.

Animal No.	Functional observations (on the desk)					Stage : Week 4			Species : Rat
	Sex : Male	Visual reactivity	Touch reactivity	Auditory reactivity	Pain reactivity	Dose : Isononane 0 mg/kg	Proprioceptive reactivity	Righting reflex	
10101	4	2	1	2	1	2	1	1	
10105	4	2	1	2	1	2	1	1	
10108	4	2	1	2	1	2	1	1	
10109	4	2	1	2	1	2	1	1	
10112	4	2	1	2	1	2	1	1	
n	5	5	5	5	5	5	5	5	

Visual reactivity) 1;Jumping, 2;Turning away, 3;No reaction, 4;Approach, 5;Attack.
 Touch reactivity) 1;Hyposensitive, 2;Turning away, 3;Hypersensitive.
 Auditory reactivity) 0;No reaction, 1;Normal, moving the auricle, 2;Sensitive, moving the body, 3;Hypersensitive, surprising and jumping.
 Pain reactivity) 0;No reaction, 1;Dull, vocalizing, 2;Normal, vocalizing and turning back, 3;Hypersensitive, attacking or jumping.
 Proprioceptive reactivity) 0;No returning, 1;Returning.
 Righting reflex) 1;Normal, landing by foot, 2;Abnormal, landing by body.

Animal No.	Functional observations (on the desk)					Stage : Week 4			Species : Rat
	Sex : Male	Visual reactivity	Touch reactivity	Auditory reactivity	Pain reactivity	Proprioceptive reactivity	Righting reflex		
10203	4	2	1	2	1	2	1	1	
10204	4	2	1	2	1	2	1	1	
10206	4	2	1	2	1	2	1	1	
10210	4	2	1	2	1	2	1	1	
10211	4	2	1	2	1	2	1	1	
n	5	5	5	5	5	5	5	5	

Visual reactivity) 1;Jumping, 2;Turning away, 3;No reaction, 4;Approach, 5;Attack.
 Touch reactivity) 1;Hyposensitive, 2;Turning away, 3;Hypersensitive.
 Auditory reactivity) 0;No reaction, 1;Normal, moving the auricle, 2;Sensitive, moving the body, 3;Hypersensitive, surprising and jumping.
 Pain reactivity) 0;No reaction, 1;Dull, vocalizing, 2;Normal, vocalizing and turning back, 3;Hypersensitive, attacking or jumping.
 Proprioceptive reactivity) 0;No returning, 1;Returning,
 Righting reflex) 1;Normal, landing by foot, 2;Abnormal, landing by body.

Animal No.	Functional observations (on the desk)					Stage : Week 4			Species : Rat
	Sex : Male	Visual reactivity	Touch reactivity	Auditory reactivity	Pain reactivity	Proprioceptive reactivity	Righting reflex		
10303	4	2	1	2	1	2	1	1	
10304	4	2	1	2	1	2	1	1	
10309	4	2	1	2	1	2	1	1	
10310	4	2	1	2	1	2	1	1	
10311	4	2	1	2	1	2	1	1	
n	5	5	5	5	5	5	5	5	

Visual reactivity) 1;Jumping, 2;Turning away, 3;No reaction, 4;Approach, 5;Attack.
 Touch reactivity) 1;Hyposensitive, 2;Turning away, 3;Hypersensitive.
 Auditory reactivity) 0;No reaction, 1;Normal, moving the auricle, 2;Sensitive, moving the body, 3;Hypersensitive, surprising and jumping.
 Pain reactivity) 0;No reaction, 1;Dull, vocalizing, 2;Normal, vocalizing and turning back, 3;Hypersensitive, attacking or jumping.
 Proprioceptive reactivity) 0;No returning, 1;Returning,
 Righting reflex) 1;Normal, landing by foot, 2;Abnormal, landing by body.

Animal No.	Functional observations (on the desk)					Stage : Week 4			Species : Rat
	Sex : Male	Visual reactivity	Touch reactivity	Auditory reactivity	Pain reactivity	Dose : Isononane 1000 mg/kg	Proprioceptive reactivity	Righting reflex	
10401	4	2	1	2	1	2	1	1	
10405	4	2	1	2	1	2	1	1	
10407	4	2	1	2	1	2	1	1	
10409	4	2	1	2	1	2	1	1	
10412	4	2	1	2	1	2	1	1	
n	5	5	5	5	5	5	5	5	

Visual reactivity) 1;Jumping, 2;Turning away, 3;No reaction, 4;Approach, 5;Attack.
 Touch reactivity) 1;Hyposensitive, 2;Turning away, 3;Hypersensitive.
 Auditory reactivity) 0;No reaction, 1;Normal, moving the auricle, 2;Sensitive, moving the body, 3;Hypersensitive, surprising and jumping.
 Pain reactivity) 0;No reaction, 1;Dull, vocalizing, 2;Normal, vocalizing and turning back, 3;Hypersensitive, attacking or jumping.
 Proprioceptive reactivity) 0;No returning, 1;Returning.
 Righting reflex) 1;Normal, landing by foot, 2;Abnormal, landing by body.

Animal No.	Functional observations (on the desk)					Stage : Lactation Day 13 Dose : Isononane 0 mg/kg			Species : Rat
	Sex : Female	Visual reactivity	Touch reactivity	Auditory reactivity	Pain reactivity	Proprioceptive reactivity	Righting reflex		
50152	4	2	1	2	1	2	1	1	
50153	4	2	1	2	1	2	1	1	
50156	4	2	1	2	1	2	1	1	
50161	4	2	1	2	1	2	1	1	
50162	4	2	1	2	1	2	1	1	
n	5	5	5	5	5	5	5	5	

Visual reactivity) 1;Jumping, 2;Turning away, 3;No reaction, 4;Approach, 5;Attack.
 Touch reactivity) 1;Hyposensitive, 2;Turning away, 3;Hypersensitive.
 Auditory reactivity) 0;No reaction, 1;Normal, moving the auricle, 2;Sensitive, moving the body, 3;Hypersensitive, surprising and jumping.
 Pain reactivity) 0;No reaction, 1;Dull, vocalizing, 2;Normal, vocalizing and turning back, 3;Hypersensitive, attacking or jumping.
 Proprioceptive reactivity) 0;No returning, 1;Returning.
 Righting reflex) 1;Normal, landing by foot, 2;Abnormal, landing by body.

Animal No.	Functional observations (on the desk)					Stage : Lactation Day 13 Dose : Isononane 60 mg/kg			Species : Rat
	Sex : Female	Visual reactivity	Touch reactivity	Auditory reactivity	Pain reactivity	Proprioceptive reactivity	Righting reflex		
50251	4	2	1	2	1	2	1	1	
50255	4	2	1	2	1	2	1	1	
50256	4	2	1	2	1	2	1	1	
50260	4	2	1	2	1	2	1	1	
50261	4	2	1	2	1	2	1	1	
n	5	5	5	5	5	5	5	5	

Visual reactivity) 1;Jumping, 2;Turning away, 3;No reaction, 4;Approach, 5;Attack.
 Touch reactivity) 1;Hyposensitive, 2;Turning away, 3;Hypersensitive.
 Auditory reactivity) 0;No reaction, 1;Normal, moving the auricle, 2;Sensitive, moving the body, 3;Hypersensitive, surprising and jumping.
 Pain reactivity) 0;No reaction, 1;Dull, vocalizing, 2;Normal, vocalizing and turning back, 3;Hypersensitive, attacking or jumping.
 Proprioceptive reactivity) 0;No returning, 1;Returning.
 Righting reflex) 1;Normal, landing by foot, 2;Abnormal, landing by body.

Animal No.	Functional observations (on the desk)					Stage : Lactation Day 13 Dose : Isononane 250 mg/kg			Species : Rat
	Sex : Female	Visual reactivity	Touch reactivity	Auditory reactivity	Pain reactivity	Proprioceptive reactivity	Righting reflex		
50352	4	2	1	2	1	2	1	1	
50353	4	2	1	2	1	2	1	1	
50357	4	2	1	2	1	2	1	1	
50361	4	2	1	2	1	2	1	1	
50362	4	2	1	2	1	2	1	1	
n	5	5	5	5	5	5	5	5	

Visual reactivity) 1;Jumping, 2;Turning away, 3;No reaction, 4;Approach, 5;Attack.
 Touch reactivity) 1;Hyposensitive, 2;Turning away, 3;Hypersensitive.
 Auditory reactivity) 0;No reaction, 1;Normal, moving the auricle, 2;Sensitive, moving the body, 3;Hypersensitive, surprising and jumping.
 Pain reactivity) 0;No reaction, 1;Dull, vocalizing, 2;Normal, vocalizing and turning back, 3;Hypersensitive, attacking or jumping.
 Proprioceptive reactivity) 0;No returning, 1;Returning.
 Righting reflex) 1;Normal, landing by foot, 2;Abnormal, landing by body.

Animal No.	Functional observations (on the desk)					Stage : Lactation Day 13 Dose : Isononane 1000 mg/kg			Species : Rat
	Sex : Female	Visual reactivity	Touch reactivity	Auditory reactivity	Pain reactivity	Proprioceptive reactivity	Righting reflex		
50453	4	2	1	2	1	2	1	1	
50454	4	2	1	2	1	2	1	1	
50457	4	2	1	2	1	2	1	1	
50460	4	2	1	2	1	2	1	1	
50462	4	2	1	2	1	2	1	1	
n	5	5	5	5	5	5	5	5	

Visual reactivity) 1;Jumping, 2;Turning away, 3;No reaction, 4;Approach, 5;Attack.
 Touch reactivity) 1;Hyposensitive, 2;Turning away, 3;Hypersensitive.
 Auditory reactivity) 0;No reaction, 1;Normal, moving the auricle, 2;Sensitive, moving the body, 3;Hypersensitive, surprising and jumping.
 Pain reactivity) 0;No reaction, 1;Dull, vocalizing, 2;Normal, vocalizing and turning back, 3;Hypersensitive, attacking or jumping.
 Proprioceptive reactivity) 0;No returning, 1;Returning.
 Righting reflex) 1;Normal, landing by foot, 2;Abnormal, landing by body.

Animal No.	Functional observations (on the desk)				Stage : Week 4	
	Sex : Female (satellite)	Visual reactivity	Touch reactivity	Auditory reactivity	Pain reactivity	Dose : Isononane 0 mg/kg
50556	4	2	1	1	2	1
50557	4	2	1	2	2	1
50558	2	2	1	2	1	1
50559	4	2	1	2	1	1
50560	4	2	1	2	1	1
n	5	5	5	5	5	5

Visual reactivity) 1;Jumping, 2;Turning away, 3;No reaction, 4;Approach, 5;Attack.

Touch reactivity) 1;Hyposensitive, 2;Turning away, 3;Hypersensitive.

Auditory reactivity) 0;No reaction, 1;Normal, moving the auricle, 2;Sensitive, moving the body, 3;Hypersensitive, surprising and jumping.

Pain reactivity) 0;No reaction, 1:Dull, vocalizing, 2;Normal, vocalizing and turning back, 3;Hypersensitive, attacking or jumping.

Proprioceptive reactivity) 0;No returning, 1;Returning.

Righting reflex) 1;Normal, landing by foot, 2;Abnormal, landing by body.

Animal No.	Functional observations (on the desk)				Stage : Week 4	
	Sex : Female (satellite)	Visual reactivity	Touch reactivity	Auditory reactivity	Pain reactivity	Dose : Isononane 1000 mg/kg
50656	4	2	1	1	2	1
50657	4	2	1	2	2	1
50658	4	2	1	2	1	1
50659	4	2	1	2	1	1
50660	4	2	1	2	1	1
n	5	5	5	5	5	5

Visual reactivity) 1;Jumping, 2;Turning away, 3;No reaction, 4;Approach, 5;Attack.

Touch reactivity) 1;Hyposensitive, 2;Turning away, 3;Hypersensitive.

Auditory reactivity) 0;No reaction, 1;Normal, moving the auricle, 2;Sensitive, moving the body, 3;Hypersensitive, surprising and jumping.

Pain reactivity) 0;No reaction, 1:Dull, vocalizing, 2;Normal, vocalizing and turning back, 3;Hypersensitive, attacking or jumping.

Proprioceptive reactivity) 0;No returning, 1;Returning.

Righting reflex) 1;Normal, landing by foot, 2;Abnormal, landing by body.

Animal No.	Functional observations (on the desk)					Stage : Recovery Week 2			Species : Rat
	Sex : Male	Visual reactivity	Touch reactivity	Auditory reactivity	Pain reactivity	Proprioceptive reactivity	Righting reflex		
10101	4	2	1	2	1	2	1	1	
10105	4	2	1	2	1	2	1	1	
10108	4	2	1	2	1	2	1	1	
10109	4	2	1	2	1	2	1	1	
10112	4	2	1	2	1	2	1	1	
n	5	5	5	5	5	5	5	5	

Visual reactivity) 1;Jumping, 2;Turning away, 3;No reaction, 4;Approach, 5;Attack.
 Touch reactivity) 1;Hyposensitive, 2;Turning away, 3;Hypersensitive.

Auditory reactivity) 0;No reaction, 1;Normal, moving the auricle, 2;Sensitive, moving the body, 3;Hypersensitive, surprising and jumping.
 Pain reactivity) 0;No reaction, 1;Dull, vocalizing, 2;Normal, vocalizing and turning back, 3;Hypersensitive, attacking or jumping.

Proprioceptive reactivity) 0;No returning, 1;Returning,
 Righting reflex) 1;Normal, landing by foot, 2;Abnormal, landing by body.

Animal No.	Functional observations (on the desk)					Stage : Recovery Week 2			Species : Rat
	Sex : Male	Visual reactivity	Touch reactivity	Auditory reactivity	Pain reactivity	Proprioceptive reactivity	Righting reflex		
10401	4	2	1	2	1	2	1	1	
10405	4	2	1	2	1	2	1	1	
10407	4	2	1	2	1	2	1	1	
10409	4	2	1	2	1	2	1	1	
10412	4	2	1	2	1	2	1	1	
n	5	5	5	5	5	5	5	5	

Visual reactivity) 1;Jumping, 2;Turning away, 3;No reaction, 4;Approach, 5;Attack.
 Touch reactivity) 1;Hyposensitive, 2;Turning away, 3;Hypersensitive.

Auditory reactivity) 0;No reaction, 1;Normal, moving the auricle, 2;Sensitive, moving the body, 3;Hypersensitive, surprising and jumping.

Pain reactivity) 0;No reaction, 1;Dull, vocalizing, 2;Normal, vocalizing and turning back, 3;Hypersensitive, attacking or jumping.

Proprioceptive reactivity) 0;No returning, 1;Returning.

Righting reflex) 1;Normal, landing by foot, 2;Abnormal, landing by body.

Animal No.	Grip strength Sex : Male			Stage : Week 4 Dose : Isononane 0 mg/kg			Species : Rat	
	Forelimb, 1st	Forelimb, 2nd	Forelimb, 3rd	Forelimb	Hindlimb, 1st	Hindlimb, 2nd	Hindlimb, 3rd	Hindlimb
	g	g	g	g	g	g	g	g
10101	1301	1280	1492	1357.7	369	557	426	450.7
10105	1474	1456	1258	1396.0	555	470	556	527.0
10108	1328	1407	1358	1364.3	383	368	429	393.3
10109	1530	1396	1519	1481.7	421	409	373	401.0
10112	1245	1558	1528	1443.7	516	426	459	467.0
n	5	5	5	5	5	5	5	5
Mean	1375.6	1419.4	1431.0	1408.68	448.8	446.0	448.6	447.80
S.D.	120.8	100.9	118.5	53.12	82.6	72.0	67.6	54.34

Animal No.	Grip strength						Stage : Week 4			Species : Rat
	Sex : Male		Forelimb, 1st	Forelimb, 2nd	Forelimb, 3rd	Forelimb	Hindlimb, 1st	Hindlimb, 2nd	Hindlimb, 3rd	
	g	g	g	g	g	g	g	g	g	g
10203	1261	1334	1249	1281.3	1281.3	496	359	451	435.3	
10204	1256	1415	1438	1369.7	1369.7	435	414	431	426.7	
10206	1311	1392	1438	1380.3	1380.3	427	443	409	426.3	
10210	1204	1202	1223	1209.7	1209.7	435	397	421	417.7	
10211	1387	1463	1413	1421.0	1421.0	421	428	440	429.7	
n	5	5	5	5	5	5	5	5	5	
Mean	1283.8	1361.2	1352.2	1332.40	1332.40	442.8	408.2	430.4	427.14	
S.D.	69.0	100.4	107.0	85.44	85.44	30.3	32.3	16.3	6.39	

Animal No.	Grip strength						Stage : Week 4											
	Sex : Male			Forelimb, 1st			Forelimb, 2nd			Forelimb, 3rd			Dose : Isononane 250 mg/kg			Species : Rat		
	g	g	g		g	g		g	g	g	g	g		g	g	g	g	g
10303	1534	1381	1497		1470.7	422		393	387		400.7							
10304	1265	1412	1388		1355.0	542		522	485		516.3							
10309	1352	1456	1589		1465.7	299		337	280		305.3							
10310	1545	1397	1264		1402.0	402		348	384		378.0							
10311	1281	1451	1214		1315.3	543		436	393		457.3							
n	5	5	5		5	5		5	5		5							
Mean	1395.4	1419.4	1390.4		1401.74	441.6		407.2	385.8		411.52							
S.D.	135.6	33.0	156.4		68.01	103.3		75.2	72.6		80.00							

Animal No.	Grip strength Sex : Male			Stage : Week 4 Dose : Isononane 1000 mg/kg						Species : Rat
	Forelimb, 1st	Forelimb, 2nd	Forelimb, 3rd	Forelimb	Hindlimb, 1st	Hindlimb, 2nd	Hindlimb, 3rd	Hindlimb		
	g	g	g	g	g	g	g	g	g	g
10401	1417	1367	1544	1442.7	408	435	408	417.0		
10405	1451	1598	1542	1530.3	364	411	418	397.7		
10407	1530	1380	1545	1485.0	605	574	576	585.0		
10409	1600	1586	1425	1537.0	540	436	452	476.0		
10412	1310	1375	1418	1367.7	334	306	317	319.0		
n	5	5	5	5	5	5	5	5		
Mean	1461.6	1461.2	1494.8	1472.54	450.2	432.4	434.2	438.94		
S.D.	110.6	119.6	67.0	69.87	117.0	95.5	93.7	99.09		

Animal No.	Grip strength						Stage : Lactation Day 13					
	Sex : Female			Forelimb, 1st	Forelimb, 2nd	Forelimb, 3rd	Forelimb	Hindlimb, 1st	Hindlimb, 2nd	Hindlimb, 3rd	Hindlimb	Species : Rat
	g	g	g	g	g	g	g	g	g	g	g	g
50152	1433	1403	1344	1393.3	321	299	292	304.0				
50153	1339	1460	1357	1385.3	373	335	451	386.3				
50156	1329	1216	1282	1275.7	370	318	360	349.3				
50161	1018	1345	1386	1249.7	377	264	364	335.0				
50162	1435	1394	1362	1397.0	371	342	346	353.0				
n	5	5	5	5	5	5	5	5				
Mean	1310.8	1363.6	1346.2	1340.20	362.4	311.6	362.6	345.52				
S.D.	171.2	92.1	39.0	71.47	23.3	31.4	57.2	29.87				

Animal No.	Grip strength										Species : Rat
	Sex : Female			Forelimb, 1st	Forelimb, 2nd	Forelimb, 3rd	Forelimb	Hindlimb, 1st	Hindlimb, 2nd	Hindlimb, 3rd	
	g	g	g	g	g	g	g	g	g	g	g
50251	1149	1216	1111	1158.7	372	318	344	344.7			
50255	1241	1351	1341	1311.0	347	332	335	338.0			
50256	1478	1483	1413	1458.0	364	423	443	410.0			
50260	1329	1289	1253	1290.3	424	395	323	380.7			
50261	1258	1368	1271	1299.0	321	316	334	323.7			
n	5	5	5	5	5	5	5	5	5	5	
Mean	1291.0	1341.4	1277.8	1303.40	365.6	356.8	355.8	359.42			
S.D.	122.6	99.1	112.6	106.17	38.0	49.1	49.3	35.22			

Animal No.	Grip strength						Stage : Lactation Day 13			Species : Rat
	Sex : Female	Forelimb, 1st	Forelimb, 2nd	Forelimb, 3rd	Forelimb	Hindlimb, 1st	Hindlimb, 2nd	Hindlimb, 3rd	Hindlimb	
	g	g	g	g	g	g	g	g	g	g
50352	1358	1341	1239	1312.7	328	338	370	370	345.3	
50353	1445	1478	1441	1454.7	432	450	401	401	427.7	
50357	1431	1341	1303	1358.3	319	292	341	341	317.3	
50361	1361	1324	1262	1315.7	419	369	393	393	393.7	
50362	1396	1400	1247	1347.7	351	402	306	306	353.0	
n	5	5	5	5	5	5	5	5	5	
Mean	1398.2	1376.8	1298.4	1357.82	369.8	370.2	362.2	362.2	367.40	
S.D.	39.6	63.5	83.4	57.66	52.4	60.3	39.1	39.1	43.40	

Animal No.	Grip strength						Stage : Lactation Day 13					
	Sex : Female			Forelimb, 1st	Forelimb, 2nd	Forelimb, 3rd	Forelimb	Hindlimb, 1st	Hindlimb, 2nd	Hindlimb, 3rd	Hindlimb	Species : Rat
	g	g	g	g	g	g	g	g	g	g	g	g
50453	1292	1337	1360	1329.7	1244.0	431	459	447	445.7			
50454	1238	1287	1207	412	412	413	406	406	410.3			
50457	1191	1169	1024	1128.0	377	390	379	379	382.0			
50460	1398	1393	1384	1391.7	372	415	350	350	379.0			
50462	1373	1340	1352	1355.0	361	440	317	317	372.7			
n	5	5	5	5	5	5	5	5	5	5	5	5
Mean	1298.4	1305.2	1265.4	1289.68	390.6	423.4	379.8	379.8	397.94			
S.D.	87.6	84.9	151.8	105.48	29.6	26.6	50.1	50.1	30.35			

Animal No.	Grip strength Sex : Female (satellite)				Stage : Week 4 Dose : Isononane 0 mg/kg				Species : Rat
	Forelimb, 1st	Forelimb, 2nd	Forelimb, 3rd	Forelimb	Hindlimb, 1st	Hindlimb, 2nd	Hindlimb, 3rd	Hindlimb	
	g	g	g	g	g	g	g	g	g
50556	1179	1343	1310	1277.3	389	362	365	372.0	
50557	1083	1019	929	1010.3	359	301	402	354.0	
50558	1277	1236	1151	1221.3	350	374	334	352.7	
50559	1234	1226	1308	1256.0	347	321	431	366.3	
50560	1108	1136	1114	1119.3	332	365	366	354.3	
n	5	5	5	5	5	5	5	5	
Mean	1176.2	1192.0	1162.4	1176.84	355.4	344.6	379.6	359.86	
S.D.	81.9	121.4	158.1	111.11	21.1	31.8	37.5	8.74	

Animal No.	Grip strength Sex : Female (satellite)				Stage : Week 4				Species : Rat
	Forelimb, 1st	Forelimb, 2nd	Forelimb, 3rd	Forelimb	Hindlimb, 1st	Hindlimb, 2nd	Hindlimb, 3rd	Hindlimb	
	g	g	g	g	g	g	g	g	
50656	1081	1040	1360	1160.3	385	350	333	356.0	
50657	1435	1232	1361	1342.7	319	329	421	356.3	
50658	1228	1362	1100	1230.0	462	326	437	408.3	
50659	1173	1266	1095	1178.0	470	503	517	496.7	
50660	1412	1205	1349	1322.0	449	324	359	377.3	
n	5	5	5	5	5	5	5	5	
Mean	1265.8	1221.0	1253.0	1246.60	417.0	366.4	413.4	398.92	
S.D.	153.5	117.3	142.0	82.69	64.2	77.1	72.1	58.68	

Animal No.	Grip strength				Stage : Recovery Week 2				Species : Rat
	Sex : Male	Forelimb, 1st	Forelimb, 2nd	Forelimb, 3rd	Forelimb	Hindlimb, 1st	Hindlimb, 2nd	Hindlimb, 3rd	
	g	g	g	g	g	g	g	g	g
10101	1574	1569	1447	1530.0	465	483	431	459.7	
10105	1417	1314	1433	1388.0	619	497	574	563.3	
10108	1404	1536	1615	1518.3	552	434	441	475.7	
10109	1233	1496	1592	1440.3	425	471	480	458.7	
10112	1474	1376	1693	1514.3	549	592	498	546.3	
n	5	5	5	5	5	5	5	5	
Mean	1420.4	1458.2	1556.0	1478.18	522.0	495.4	484.8	500.74	
S.D.	124.4	108.8	112.4	61.58	77.0	58.8	56.9	50.17	

Animal No.	Grip strength						Stage : Recovery Week 2						Dose : Isononane 1000 mg/kg						Species : Rat
	Sex : Male			Forelimb, 1st			Forelimb, 2nd			Forelimb, 3rd			Hindlimb, 1st			Hindlimb, 2nd			Hindlimb
	g	g	g		g	g		g	g		g	g		g	g		g	g	
10401	1543	1499	1486		1509.3	509		543	506		519.3	519.3		519.3	519.3		519.3	519.3	
10405	1487	1321	1591		1466.3	519		496	423		479.3	479.3		479.3	479.3		479.3	479.3	
10407	1462	1613	1612		1562.3	597		576	490		554.3	554.3		554.3	554.3		554.3	554.3	
10409	1718	1742	1522		1660.7	674		588	496		586.0	586.0		586.0	586.0		586.0	586.0	
10412	1514	1532	1541		1529.0	457		475	489		473.7	473.7		473.7	473.7		473.7	473.7	
n	5	5	5		5	5		5	5		5	5		5	5		5	5	
Mean	1544.8	1541.4	1550.4		1545.52	551.2		535.6	480.8		522.52	522.52		522.52	522.52		522.52	522.52	
S.D.	101.4	154.8	51.2		73.16	85.0		49.2	33.0		48.22	48.22		48.22	48.22		48.22	48.22	

Animal No.	Motor activity measurements						Stage : Week 4					
	Sex : Male			Dose : Isononane 0 mg/kg			Sex : Female			Dose : Isononane 0 mg/kg		
	0' - 10'	10' - 20'	20' - 30'	30' - 40'	40' - 50'	50' - 60'	0' - 10'	10' - 20'	20' - 30'	30' - 40'	40' - 50'	50' - 60'
10101	556	206	140	39	10	0	0	0	0	0	0	951
10105	327	101	21	0	0	0	0	0	0	0	0	449
10108	313	211	103	79	209	81	81	81	81	81	81	996
10109	166	158	165	43	51	0	0	0	0	0	0	583
10112	294	42	217	200	86	11	11	11	11	11	11	850
n	5	5	5	5	5	5	5	5	5	5	5	5
Mean	331.2	143.6	129.2	72.2	71.2	18.4	765.8	765.8	765.8	765.8	765.8	765.8
S.D.	141.0	72.1	73.3	76.7	84.3	35.3	238.8	238.8	238.8	238.8	238.8	238.8

Animal No.	Motor activity measurements						Stage : Week 4					
	Sex : Male			Dose : Isononane 60 mg/kg			Species : Rat					
	0' - 10'	10' - 20'	20' - 30'	30' - 40'	40' - 50'	50' - 60'	0' - 60'	No.	No.	No.	No.	No.
10203	308	182	106	0	34	0	630					
10204	461	242	98	81	8	5	895					
10206	300	105	80	45	0	0	530					
10210	283	150	122	75	7	16	653					
10211	109	56	19	0	15	274	473					
n	5	5	5	5	5	5	5					
Mean	292.2	147.0	85.0	40.2	12.8	59.0	636.2					
S.D.	125.0	71.2	39.9	39.1	13.0	120.4	162.2					

Animal No.	Motor activity measurements						Stage : Week 4					
	Sex : Male			Dose : Isononane 250 mg/kg			Species : Rat					
	0' - 10'	10' - 20'	20' - 30'	30' - 40'	40' - 50'	50' - 60'	0' - 60'	No.	No.	No.	No.	No.
10303	444	305	180	154	33	0	1116					
10304	350	256	174	184	144	85	1193					
10309	334	229	101	90	25	55	834					
10310	545	472	327	157	108	230	1839					
10311	414	167	85	38	0	0	704					
n	5	5	5	5	5	5	5					
Mean	417.4	285.8	173.4	124.6	62.0	74.0	1137.2					
S.D.	84.4	115.4	95.8	59.5	61.0	94.6	440.4					

Animal No.	Motor activity measurements						Stage : Week 4					
	Sex : Male			Dose : Isononane 1000 mg/kg			Species : Rat					
	0' - 10'	10' - 20'	20' - 30'	30' - 40'	40' - 50'	50' - 60'	0' - 60'	No.	No.	No.	No.	No.
10401	408	215	36	0	15	0	674					
10405	442	397	200	131	69	19	1258					
10407	462	370	167	43	110	130	1282					
10409	224	155	122	0	25	37	563					
10412	513	386	327	87	0	0	1313					
n	5	5	5	5	5	5	5					
Mean	409.8	304.6	170.4	52.2	43.8	37.2	1018.0					
S.D.	110.6	111.6	107.0	56.9	45.1	34.1	367.3					

Animal No.	Motor activity measurements						Stage : Lactation Day 13 Dose : Isononane 0 mg/kg						Species : Rat	
	Sex : Female			30' - 40'			40' - 50'			50' - 60'				
	0' - 10'	10' - 20'	20' - 30'	No.	No.	No.	No.	No.	No.	No.	No.	No.		
50152	848	662	316				172	293		116			2407	
50153	563	298	0				157	2		2			1022	
50156	281	104	90				152	6		117			750	
50161	493	54	8				105	150		8			818	
50162	716	317	283				202	101		170			1789	
n	5	5	5				5	5		5			5	
Mean	580.2	287.0	139.4				157.6	110.4		82.6			1357.2	
S.D.	216.6	239.5	150.8				35.3	120.1		74.2			717.7	

Animal No.	Motor activity measurements						Stage : Lactation Day 13 Dose : Isononane 60 mg/kg						Species : Rat	
	Sex : Female			No. 10' - 20'			No. 20' - 30'			No. 30' - 40'				
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.		
50251	440	354	169	260	207	37	1467							
50255	360	47	11	75	121	44	658							
50256	397	148	21	97	118	142	923							
50260	231	32	0	0	0	0	263							
50261	650	275	75	35	2	0	1037							
n	5	5	5	5	5	5	5	5	5	5	5	5		
Mean	415.6	171.2	55.2	93.4	89.6	44.6	869.6							
S.D.	152.5	141.0	69.8	100.3	88.4	58.1	447.4							

Animal No.	Motor activity measurements						Stage : Lactation Day 13						Species : Rat	
	Sex : Female			Dose : Isononane 250 mg/kg			No.			No.				
	0' - 10'	10' - 20'	20' - 30'	30' - 40'	40' - 50'	50' - 60'	0' - 60'	No.	No.	No.	No.	No.		
50352	307	199	164	79	23	52	824							
50353	469	126	0	148	0	3	746							
50357	516	264	8	0	103	0	891							
50361	143	6	0	0	0	0	149							
50362	228	31	2	0	0	2	263							
n	5	5	5	5	5	5	5							
Mean	332.6	125.2	34.8	45.4	25.2	11.4	574.6							
S.D.	157.9	109.3	72.3	66.8	44.6	22.7	342.8							

Animal No.	Motor activity measurements						Stage : Lactation Day 13					
	Sex : Female			Dose : Isononane 1000 mg/kg			Species : Rat					
	0' - 10'	10' - 20'	20' - 30'	30' - 40'	40' - 50'	50' - 60'	0' - 60'	No.	No.	No.	No.	No.
50453	336	46	0	79	7	0	468					
50454	480	268	128	46	4	0	926					
50457	480	135	155	136	29	68	1003					
50460	105	17	10	44	0	0	176					
50462	129	50	44	73	13	0	309					
n	5	5	5	5	5	5	5					
Mean	306.0	103.2	67.4	75.6	10.6	13.6	576.4					
S.D.	182.5	102.1	70.2	37.2	11.3	30.4	370.1					

Animal No.	Motor activity measurements				Stage : Week 4				Species : Rat	
	Sex : Female (satellite)		Dose : Isononane 0 mg/kg		40' - 50'		50' - 60'			
	No.	No.	No.	No.	No.	No.	No.	No.		
50556	276	160	66	36	39	0	0	577		
50557	681	502	237	134	14	112	1680			
50558	708	479	460	25	118	82	1872			
50559	408	168	110	17	134	78	915			
50560	440	231	102	3	51	0	827			
n	5	5	5	5	5	5	5	5		
Mean	502.6	308.0	195.0	43.0	71.2	54.4	1174.2			
S.D.	185.9	169.0	161.6	52.3	52.1	51.4	567.3			

Animal No.	Motor activity measurements				Stage : Week 4				Species : Rat	
	Sex : Female (satellite)		Dose : Isononane 1000 mg/kg		40' - 50'		50' - 60'			
	No.	No.	No.	No.	No.	No.	No.	No.		
50656	558	401	293	313	157	194	1916			
50657	620	462	329	291	15	207	1924			
50658	631	263	284	203	13	145	1539			
50659	488	185	53	0	0	0	726			
50660	243	166	16	36	31	0	492			
n	5	5	5	5	5	5	5			
Mean	508.0	295.4	195.0	168.6	43.2	109.2	1319.4			
S.D.	158.7	131.2	148.1	144.1	64.6	102.3	672.0			

Animal No.	Motor activity measurements						Stage : Recovery Week 2						Species : Rat	
	Sex : Male			Sex : Female			Dose : Isononane 0 mg/kg			Dose : Isononane 50 mg/kg				
	0' - 10'	10' - 20'	20' - 30'	0' - 10'	10' - 20'	20' - 30'	40' - 50'	50' - 60'	0' - 60'	40' - 50'	50' - 60'	0' - 60'		
10101	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.		
10101	619	238	296	34	19	0	0	0	0	0	0	0	1206	
10105	360	72	51	25	3	0	0	0	0	0	0	0	511	
10108	299	136	96	29	91	23	23	23	23	23	23	23	674	
10109	74	35	17	4	0	0	0	0	0	0	0	0	130	
10112	459	227	32	1	0	0	0	0	0	0	0	0	719	
n	5	5	5	5	5	5	5	5	5	5	5	5		
Mean	362.2	141.6	98.4	18.6	22.6	4.6	648.0							
S.D.	201.5	90.6	114.4	15.1	39.0	10.3	388.6							

Animal No.	Motor activity measurements						Stage : Recovery Week 2					
	Sex : Male			Dose : Isononane 1000 mg/kg			Species : Rat					
	0' - 10'	10' - 20'	20' - 30'	30' - 40'	40' - 50'	50' - 60'	0' - 60'	No.	No.	No.	No.	No.
10401	327	45	40	0	35	0	447					
10405	704	511	239	297	205	296	2252					
10407	238	127	53	47	57	5	527					
10409	683	380	189	114	47	0	1413					
10412	360	191	45	20	0	0	616					
n	5	5	5	5	5	5	5					
Mean	462.4	250.8	113.2	95.6	68.8	60.2	1051.0					
S.D.	215.8	190.8	93.8	120.5	79.1	131.8	774.9					

Animal No.	Body weight /Day				Period : Administration Day 1-28				Unit : g	
	1	4	7	14	21	28	Body weight gain	Species	Rat	
10101	466	463	473	493	515	525	59			
10102	403	406	410	425	446	466	63			
10103	461	470	485	520	546	581	120			
10104	475	482	496	525	548	569	94			
10105	424	438	451	484	510	535	111			
10106	412	424	439	453	478	495	83			
10107	465	461	470	498	517	540	75			
10108	432	439	455	483	499	511	79			
10109	433	436	446	463	486	496	63			
10110	423	427	437	465	481	504	81			
10111	422	439	456	490	524	548	126			
10112	453	459	470	494	516	538	85			
n	12	12	12	12	12	12	12			
Mean	439.1	445.3	457.3	482.8	505.5	525.7	86.6			
S.D.	23.9	21.9	23.3	28.0	29.3	33.0	22.2			

Animal No.	Body weight /Day			Period : Administration Day 1-28			Period : Isotonane 60 mg/kg			Species : Rat
	1	4	7	14	21	28	Body weight gain	Body weight gain	Unit : g	
10201	448	460	467	495	515	535	535	535	87	
10202	417	423	434	447	468	478	531	531	61	
10203	432	444	454	483	514	520	520	520	99	
10204	444	454	461	486	502	525	543	543	76	
10205	464	471	485	512	525	543	543	543	79	
10206	431	449	458	491	508	512	512	512	81	
10207	421	432	445	461	478	490	490	490	69	
10208	434	454	452	465	483	491	491	491	57	
10209	463	471	486	512	534	555	555	555	92	
10210	430	438	451	481	500	518	518	518	88	
10211	416	426	443	458	483	501	501	501	85	
10212	467	482	493	518	537	560	560	560	93	
n	12	12	12	12	12	12	519.5	519.5	80.6	
Mean	438.9	450.3	460.8	484.1	503.9	519.5	519.5	519.5	80.6	
S.D.	18.2	18.7	18.6	23.0	22.4	26.3	26.3	26.3	12.9	

Animal No.	Body weight /Day			Period : Administration Day 1-28			Dose : Isotonane 250 mg/kg			Unit : g	Species : Rat
	1	4	7	14	21	28	Body weight gain	Body weight gain			
10301	436	435	441	452	483	509	73				
10302	446	455	469	504	529	548	102				
10303	453	465	474	495	513	529	76				
10304	447	449	464	477	491	501	54				
10305	456	463	481	497	501	524	68				
10306	432	441	446	472	487	493	61				
10307	475	486	503	528	545	561	86				
10308	469	477	490	509	531	559	90				
10309	425	441	450	477	502	517	92				
10310	445	451	462	477	490	504	59				
10311	419	432	443	467	496	507	88				
10312	380	395	402	415	440	452	72				
n	12	12	12	12	12	12					
Mean	440.3	449.2	460.4	480.8	500.7	517.0	76.8				
S.D.	25.1	23.7	26.6	29.4	27.4	30.5	14.9				

Animal No.	Period : Administration Day 1-28				Period : Isononane 1000 mg/kg		Unit : g	Species : Rat
	/Day	1	4	7	14	21	28	
	Body weight						Body weight gain	
10401		444	454	469	487	494	499	55
10402		429	425	437	447	450	471	42
10403		464	468	484	512	522	547	83
10404		480	493	498	529	544	561	81
10405		433	435	442	467	486	496	63
10406		400	404	411	409	428	441	41
10407		462	466	471	498	500	513	51
10408		460	470	478	498	500	524	64
10409		448	444	448	468	485	485	37
10410		431	448	464	492	515	536	105
10411		413	416	426	437	451	467	54
10412		428	433	435	453	453	465	37
n		12	12	12	12	12	12	
Mean		441.0	446.3	455.3	474.8	485.7	500.4	59.4
S.D.		23.1	25.5	26.1	34.3	34.3	36.7	21.1

Animal No.	Body weight /Day			Period : F0 before mating Day 1-49			Dose : Isononane 0 mg/kg			Unit : g			Species : Rat
	1	4	7	14	21	28	35	42	49				
50151	265	278	282	291	291	291	28						
50152	278	283	292	296	296	296	18						
50153	267	263	273	274	274	274	7						
50154	251	257	259	259	259	259	8						
50155	259	269	266	309	309	309	50						
50156	283	279	290	304	304	304	21						
50157	274	285	288	291	291	291	17						
50158	262	268	271	286	286	286	24						
50159	282	283	294	302	302	302	20						
50160	267	274	274	273	273	273	6						
50161	289	292	291	307	307	307	18						
50162	289	286	291	300	300	300	11						
n	12	12	12	12	12	12	1						
Mean	272.2	276.4	280.9	291.0	291.0	291.0	18.8						
S.D.	12.2	10.4	11.8	15.5	15.5	15.5	11.8						
				297.0	297.0	297.0							
				322.0	322.0	322.0							
				303.0	303.0	303.0							
				299.0	299.0	299.0							
				310.0	310.0	310.0							

Animal No.	Body weight /Day			Period : FO gestation Day 0-20			Unit : g	Species : Rat
	0	7	14	20	Body weight gain	Dose : Isotonane 0 mg/kg		
50151	299	318	355	416	117			
50152	299	348	400	471	172			
50153	280	310	341	407	127			
50155	316	348	386	458	142			
50156	302	340	374	449	147			
50157	298	346	386	474	176			
50158	305	334	373	457	152			
50159	299	321	349	421	122			
50160	286	306	339	413	127			
50161	308	332	367	448	140			
50162	304	336	354	428	124			
n	11	11	11	11	11			
Mean	299.6	330.8	365.8	440.2	140.5			
S.D.	9.8	15.0	19.9	24.0	19.9			

Animal No.	Body weight /Day				Period : F0 lactation Day 0-13		Unit : g	Species : Rat
	0	4	7	13	Body weight gain			
50151	354	359	365	374	20			
50152	367	378	376	386	19			
50153	327	340	345	343	16			
50155	367	386	394	393	26			
50156	361	368	377	384	23			
50157	372	396	395	393	21			
50159	340	361	369	381	41			
50160	326	321	351	354	28			
50161	347	361	371	361	14			
50162	337	357	361	375	38			
n	10	10	10	10	10			
Mean	349.8	362.7	370.4	374.4	24.6			
S.D.	16.9	21.7	16.3	16.8	8.9			

Period : F0 before mating Day 1-14
Dose : Isononane 60 mg/kg

Animal No.	Sex : Female /Day	Body weight			Species : Rat
		1	4	7	
50251		247	260	267	272
50252		263	262	260	255
50253		261	267	274	282
50254		270	276	285	291
50255		272	275	287	297
50256		269	276	281	294
50257		279	277	283	290
50258		264	271	280	285
50259		252	259	265	272
50260		284	283	281	294
50261		286	289	296	309
50262		283	286	294	299
n		12	12	12	12
Mean		269.2	273.4	279.4	286.7
S.D.		12.5	9.9	11.1	14.6
					9.5

Animal No.	Body weight /Day				Period : FO gestation Day 0-20		Unit : g	Species : Rat
	0	7	14	20	Body weight gain			
50251	276	317	354	451	175			
50252	272	310	348	449	177			
50253	288	316	345	422	134			
50254	304	327	374	451	147			
50255	304	333	363	442	138			
50256	300	321	357	439	139			
50257	297	329	361	454	157			
50258	291	308	342	412	121			
50259	279	302	336	418	139			
50260	295	332	367	451	156			
50261	313	317	363	448	135			
50262	321	368	395	408	87			
n	12	12	12	12				
Mean	295.0	323.3	358.8	437.1	142.1			
S.D.	14.8	17.1	15.9	17.1	24.1			

Animal No.	Body weight Sex : Female /Day			Period : F0 lactation Day 0-13 Dose : Isotonane 60 mg/kg			Unit : g	Species : Rat
	0	4	7	13	Body weight gain			
50251	356	369	365	372		16		
50252	331	344	356	357		26		
50253	333	351	361	365		32		
50254	356	374	383	377		21		
50255	346	336	342	343		-3		
50256	343	351	356	351		8		
50257	364	359	383	377		13		
50258	337	345	346	359		22		
50259	299	308	310	338		39		
50260	361	360	371	362		1		
50261	355	362	364	357		2		
50262	379	391	390	383		4		
n	12	12	12	12		12		
Mean	346.7	354.2	360.6	361.8		15.1		
S.D.	20.5	20.8	21.7	13.9		13.3		

Animal No.	Body weight /Day			Period : F0 before mating Day 1-49			Dose : Isononane 250 mg/kg			Unit : g			Species : Rat
	1	4	7	14	21	28	35	42	49				
50351	275	276	274	274	-1	333							
50352	284	283	286	302	18								
50353	266	265	269	281	15								
50354	264	266	272	276	12								
50355	255	265	272	280	25								
50356	273	275	280	285	12								
50357	260	262	272	283	23								
50358	268	277	277	286	18								
50359	260	264	267	273	13								
50360	261	267	269	278	17								
50361	287	294	300	309	22								
50362	246	250	249	261	15								
n	12	12	12	12									
Mean	266.6	270.3	273.9	282.3	15.8	306.0	284.0	296.0	299.0	302.0			
S.D.	11.7	11.4	12.1	12.8	6.8	38.2							

Animal No.	Body weight			Period : F0 gestation Day 0-20			Unit : g
	Day 0	Day 7	Day 14	Day 20	Body weight gain	Species : Rat	
50351	335	371	393	488	153		
50352	303	326	356	435	132		
50353	281	319	355	455	174		
50354	282	322	364	476	194		
50355	301	349	389	473	172		
50356	281	315	346	430	149		
50357	300	331	358	449	149		
50358	286	304	330	400	114		
50359	295	\$	325	\$	35	\$	
50360	322	339	376	454	132		
50361	265	295	325	387	122		
50362	10	10	10	10	10		
n	295.6	327.1	359.2	444.7	149.1		
Mean	21.1	22.0	22.5	32.5	25.2		
S.D.							

Animal No. 50360 : Non-pregnancy
\$: Excepted data from calculation

Period : F0 lactation Day 0-13
Dose : Isononane 250 mg/kg

Animal No.	Body weight Sex : Female /Day			Body weight Day 0-13			Species : Rat
	0	4	7	13	Body weight gain		
50351	375	385	378	392	17		
50352	351	356	354	353	2		
50353	333	360	358	366	33		
50354	300	...	...	...	...
50356	356	387	384	380	24		
50357	334	349	363	360	26		
50358	338	361	364	368	30		
50359	321	340	336	340	19		
50361	356	384	388	392	36		
50362	316	332	343	325	9		
n	10	9	9	9	9		
Mean	338.0	361.6	363.1	364.0	21.8		
S.D.	22.2	20.1	17.8	22.6	11.2		

Animal No. 50354 : Euthanized on lactation Day 0 because of abnormal delivery (stillbirth)

... : Blank

Period : F0 before mating Day 1-14
Dose : Isononane 1000 mg/kg

Animal No.	Body weight /Day			Body weight gain			Unit : g	Species : Rat
	1	4	7	14				
50451	264	274	271	279		15		
50452	264	228	254	268		4		
50453	261	263	262	266		5		
50454	253	264	266	264		11		
50455	271	265	272	270		-1		
50456	279	285	289	299		20		
50457	274	253	270	280		6		
50458	253	261	267	269		16		
50459	269	275	281	278		9		
50460	283	280	289	298		15		
50461	277	278	287	288		11		
50462	278	253	210	295		17		
n	12	12	12					
Mean	268.8	264.9	268.2	279.5		10.7		
S.D.	10.0	15.5	21.4	12.8		6.3		

Animal No.	Body weight /Day			Body weight gain			Unit : g	Species : Rat
	1	4	7	14				
50451	264	274	271	279		15		
50452	264	228	254	268		4		
50453	261	263	262	266		5		
50454	253	264	266	264		11		
50455	271	265	272	270		-1		
50456	279	285	289	299		20		
50457	274	253	270	280		6		
50458	253	261	267	269		16		
50459	269	275	281	278		9		
50460	283	280	289	298		15		
50461	277	278	287	288		11		
50462	278	253	210	295		17		
n	12	12	12					
Mean	268.8	264.9	268.2	279.5		10.7		
S.D.	10.0	15.5	21.4	12.8		6.3		

Animal No.	Body weight /Day			Period : F0 gestation Day 0-20			Unit : g	Species : Rat
	0	7	14	20	Body weight gain	Dose : Isotonane 1000 mg/kg		
50451	282	313	338	408	126			
50452	275	305	346	440	165			
50453	272	296	328	403	131			
50454	271	311	347	418	147			
50455	274	298	331	399	125			
50456	306	327	358	435	129			
50457	286	307	343	408	122			
50458	277	305	338	408	131			
50459	282	306	329	413	131			
50460	303	320	355	430	127			
50461	289	322	361	441	152			
50462	294	333	375	469	175			
n	12	12	12	12	12			
Mean	284.3	311.9	345.8	422.7	138.4			
S.D.	11.8	11.5	14.4	20.7	17.3			

Animal No.	Body weight /Day			Period : F0 lactation Day 0-13 Dose : Isononane 1000 mg/kg			Unit : g	Species : Rat
	0	4	7	13	Body weight gain			
50451	329	344	342	350		21		
50452	313	336	352	362		49		
50453	305	317	319	330		25		
50454	337	361	378	369		32		
50455	322	318	317	325		3		
50456	340	344	350	359		19		
50457	308	346	346	340		32		
50458	339	351	346	350		11		
50459	327	351	348	357		30		
50460	324	348	351	362		38		
50461	283	...	...	...	
50462	348	373	392	402		54		
n	12	11	11					
Mean	322.9	344.5	349.2	355.1		28.5		
S.D.	18.3	16.5	21.7	20.8		15.2		

Animal No. 50461 : Euthanized on lactation Day 3 because of moribund condition

... : Blank

Period : Administration Day 1-28
Dose : Isononane 0 mg/kg

Animal No.	Sex : Female (satellite)				Period : Administration Day 1-28		Unit : g	Species : Rat
	/Day	1	4	7	14	21	28	
50551	262	269	274	289	295	296	296	34
50552	266	270	275	282	285	296	30	
50553	271	277	288	304	312	320	49	
50554	276	277	277	294	298	300	24	
50555	265	276	283	291	304	306	41	
50556	268	269	282	299	305	306	38	
50557	278	284	283	304	314	321	43	
50558	268	268	267	283	289	289	21	
50559	282	284	286	286	302	311	29	
50560	253	259	261	271	286	289	36	
n	10	10	10	10	10	10	10	
Mean	268.9	273.3	277.6	290.3	299.0	303.4	34.5	
S.D.	8.4	7.8	8.6	10.4	10.3	11.5	8.7	

Period : Administration Day 1-28
 Dose : Isononane 1000 mg/kg

Animal No.	Sex : Female (satellite)				Period : Administration Day 1-28				Unit : g	Species : Rat
	/Day	1	4	7	14	21	272	28		
								Body weight gain		
50651		261	256	252	274					
50652		277	256	212						
50653		269	271	268	267	278	279		...	...
50654		263	262	273	274	287	287		10	10
50655		266	265	267	276	276	278		24	24
50656		261	261	265	265	271	279		12	12
50657		261	267	269	275	283	294		18	18
50658		251	260	268	275	282	290		33	33
50659		264	273	274	286	296	306		39	39
50660		279	273	278	287	298	303		42	42
n		10	10	9	9	9	9		24	24
Mean		265.2	264.4	262.6	275.4	282.6	288.8		9	9
S.D.		8.2	6.5	19.1	7.3	9.7	10.4		24.9	24.9

Animal No. 50652 : Euthanized on Day 7 because of moribund condition

... : Blank

Animal No.	Period : Recovery Day 1-14			Species : Rat
	Dose : Isononane 0 mg/kg			
	Sex : Male		Body weight gain	Unit : g
	/Day	1	7	14
10101		527	542	559
10105		543	549	558
10108		518	521	528
10109		495	513	525
10112		534	556	561
n		5	5	5
Mean	523.4	536.2	546.2	522.8
S.D.	18.3	18.4	18.0	9.7

Animal No.	Period : Recovery Day 1-14			Species : Rat
	Dose : Isononane 1000 mg/kg			
	Sex : Male		Day	
	1	7	14	Body weight gain
10401	491	505	518	27
10405	489	503	523	34
10407	509	519	535	26
10409	482	504	513	31
10412	457	474	496	39
n	5	5	5	5
Mean	485.6	501.0	517.0	31.4
S.D.	18.8	16.4	14.3	5.3

Animal No.	Sex : Female (satellite)			Period : Recovery Day 1-14			Unit : g	Species : Rat
	/Day	1	7	14	Body weight gain	Dose : Isononane 0 mg/kg		
50556		312	319	328	16			
50557		321	316	331	10			
50558		294	292	302	8			
50559		306	322	320	14			
50560		291	295	295	4			
n		5	5	5	5			
Mean		304.8	308.8	315.2	10.4			
S.D.		12.5	14.2	16.0	4.8			

Animal No.	Sex : Female (satellite)			Period : Recovery Day 1-14			Unit : g	Species : Rat
	/Day	1	7	14	Body weight gain	Dose : Isononane 1000 mg/kg		
50656		276	284	284	8			
50657		288	293	292	4			
50658		284	292	290	6			
50659		298	314	318	20			
50660		304	319	326	22			
n		5	5	5	5			
Mean		290.0	300.4	302.0	12.0			
S.D.		11.1	15.2	18.7	8.4			

Food consumption
Sex : Male
Period : Administration Day 1-28
Dose : Isononane 0 mg/kg

Animal No.	Food consumption			Unit : g	Species : Rat
	/Day	4	7		
10101		21.8	21.5	21.2	20.6
10102		20.3	21.0	20.4	22.9
10103		25.0	25.2	26.3	27.5
10104		22.5	25.2	24.9	...
10105		22.6	22.8	24.8	23.6
10106		20.8	20.6	20.2	19.4
10107		20.6	21.2	22.4	22.6
10108		23.9	24.5	24.8	21.5
10109		21.4	22.3	20.8	19.0
10110		20.9	20.8	22.0	19.8
10111		24.2	24.8	26.8	24.9
10112		24.9	23.9	25.1	24.1
n	12	12	12	12	11
Mean	22.41	22.82	23.31	22.35	
S.D.	1.72	1.81	2.39	2.61	

... : During mating

Food consumption
Sex : Male
Period : Administration Day 1-28
Dose : Isononane 60 mg/kg

Animal No.	Food consumption /Day			Species . Rat		
	4	7	14	28		
10201	22.5	20.4	21.0	20.0		
10202	22.9	21.7	21.8	22.9		
10203	23.2	23.0	22.5	21.0		
10204	23.3	21.8	24.2	22.2		
10205	26.1	27.0	26.3	24.0		
10206	24.0	22.9	24.0	21.9		
10207	23.3	23.1	22.7	22.4		
10208	24.6	19.8	22.8	22.6		
10209	26.5	24.4	24.2	24.3		
10210	22.6	22.2	23.8	21.7		
10211	23.4	22.9	21.2	20.2		
10212	24.3	24.4	25.9	26.3		
n	12	12	12	12		
Mean	23.89	22.80	23.37	22.46		
S.D.	1.29	1.91	1.69	1.78		

Food consumption
Sex : Male
Period : Administration Day 1-28
Dose : Isononane 250 mg/kg

Animal No.	Food consumption			Unit : g	Species : Rat
	/Day	4	7		
10301		22.1	21.4	21.4	...
10302		24.0	23.1	25.5	24.4
10303		23.5	22.1	22.9	20.6
10304		19.9	20.0	20.8	19.4
10305		22.6	24.0	22.3	...
10306		19.8	19.0	20.2	19.8
10307		23.8	25.9	25.6	25.0
10308		23.2	23.2	22.6	23.3
10309		24.1	22.4	23.3	22.1
10310		21.9	21.7	21.6	22.6
10311		20.7	20.7	20.6	20.5
10312		22.1	21.4	20.9	21.1
n	12	12	12	12	10
Mean	22.31	22.08	22.31	21.88	
S.D.	1.52	1.85	1.79	1.92	

... : During mating

Food consumption
Sex : Male
Period : Administration Day 1-28
Dose : Isononane 1000 mg/kg

Animal No.	Food consumption /Day			Period : Administration Day 1-28 Dose : Isononane 1000 mg/kg			Unit : g Species : Rat
	4	7	14	28			
10401	21.6	25.3	25.5	24.4			
10402	15.6	19.8	21.1	23.2			
10403	23.2	24.4	26.1	28.3			
10404	21.4	27.1	29.1	28.9			
10405	17.7	23.4	25.3	24.5			
10406	17.4	21.3	19.3	22.7			
10407	20.4	22.8	24.5	24.0			
10408	19.2	23.3	24.6	27.9			
10409	16.1	22.1	22.6	19.7			
10410	25.4	25.7	26.5	26.3			
10411	19.3	21.9	24.5	25.9			
10412	21.7	20.5	22.9	22.0			
n	12	12	12	12			
Mean	19.92	23.13	24.33	24.82			
S.D.	2.93	2.19	2.59	2.76			

Food consumption
Sex : Female
Period : F0 before mating Day 1-49
Dose : Isononane 0 mg/kg

Animal No.	Food consumption			Period : F0 before mating Day 1-49			Unit : g	Species : Rat
	/Day	4	7	14	35	42		
50151		19.1	17.4	17.3				
50152		18.1	16.5	16.6				
50153		14.3	18.0	15.9				
50154		13.6	13.0	13.7				
50155		18.0	15.0	21.7				
50156		17.3	17.7	16.6				
50157		16.2	15.6	16.5				
50158		18.6	18.4	19.6				
50159		17.0	16.7	16.1				
50160		15.6	16.0	15.9				
50161		16.2	15.2	16.3				
50162		17.1	18.8	17.2				
n	12	12	12	12	1	1	1	
Mean	16.76	16.53	16.95	13.00			15.40	
S.D.	1.67	1.67	2.00					

Animal No.	Food consumption /Day			Period : F0 gestation Day 0-20 Dose : Isononane 0 mg/kg	Unit : g	Species : Rat
	7	14	20			
50151	20.6	22.6	21.8			
50152	23.2	26.5	21.6			
50153	21.1	20.6	19.9			
50155	22.4	25.7	22.6			
50156	20.6	23.3	21.4			
50157	21.9	27.3	26.7			
50158	22.6	24.9	24.9			
50159	17.7	18.6	18.8			
50160	17.1	18.4	20.7			
50161	18.5	20.4	19.9			
50162	19.4	19.9	19.1			
n	11	11	11			
Mean	20.46	22.56	21.58			
S.D.	2.06	3.20	2.42			

Food consumption
Sex : Female
Period : F0 lactation Day 0-13
Dose : Isononane 0 mg/kg

Animal No.	Food consumption /Day			Period : F0 lactation Day 0-13 Dose : Isononane 0 mg/kg	Unit : g	Species : Rat
	4	7	13			
50151	33.4	46.6	55.4			
50152	26.5	37.0	45.6			
50153	32.1	43.7	52.6			
50155	32.2	49.3	54.1			
50156	28.0	43.6	51.8			
50157	33.5	42.3	52.9			
50159	32.7	45.9	50.9			
50160	30.3	41.6	51.9			
50161	28.3	44.8	46.5			
50162	27.5	39.1	48.3			
n	10	10	10			
Mean	30.45	43.39	51.00			
S.D.	2.66	3.61	3.22			

Food consumption
Sex : Female
Period : F0 before mating Day 1-14
Dose : Isononane 60 mg/kg

Animal No.	/Day			Unit : g	Species : Rat
	4	7	14		
50251	17.8	16.3	15.3		
50252	12.5	11.2	13.1		
50253	18.0	15.8	16.0		
50254	17.3	17.9	18.0		
50255	15.5	16.5	15.5		
50256	17.0	14.5	15.0		
50257	16.2	16.5	15.3		
50258	15.9	15.7	15.1		
50259	14.6	14.2	14.1		
50260	15.8	16.1	16.6		
50261	18.7	18.5	18.5		
50262	14.5	15.5	17.1		
n	12	12	12		
Mean	16.15	15.73	15.80		
S.D.	1.75	1.87	1.55		

Food consumption
Sex : Female
Period : F0 gestation Day 0-20
Dose : Isononane 60 mg/kg

Animal No.	Food consumption /Day			Period : F0 gestation Day 0-20 Dose : Isononane 60 mg/kg	Unit : g	Species : Rat
	7	14	20			
50251	21.3	24.3	26.0			
50252	20.4	22.0	23.9			
50253	19.1	19.7	21.3			
50254	20.2	22.9	20.9			
50255	18.7	19.8	19.7			
50256	20.2	21.6	21.6			
50257	20.3	21.8	21.1			
50258	16.9	20.0	20.0			
50259	16.4	18.6	20.4			
50260	20.0	22.0	23.6			
50261	15.2	22.3	24.0			
50262	23.1	24.5	20.1			
n	12	12	12			
Mean	19.32	21.63	21.88			
S.D.	2.22	1.83	2.00			

Food consumption
Sex : Female
/Day

Animal No.	Period : F0 lactation Day 0-13			Unit : g	Species : Rat
	4	7	13		
50251	30.5	42.6	47.8		
50252	32.7	42.3	49.6		
50253	35.8	46.5	52.6		
50254	29.4	41.7	50.0		
50255	21.9	31.1	41.6		
50256	24.6	42.1	48.7		
50257	25.0	40.1	51.9		
50258	28.5	37.8	48.1		
50259	19.9	39.2	49.1		
50260	30.2	39.3	49.3		
50261	33.1	40.6	50.6		
50262	16.5	21.3	22.7		
n	12	12	12		
Mean	27.34	38.72	46.83		
S.D.	5.82	6.59	8.08		

Food consumption
Sex : Female
Period : F0 before mating Day 1-49
Dose : Isononane 250 mg/kg

Animal No.	Food consumption			Period : F0 before mating Day 1-49			Unit : g	Species : Rat
	/Day	4	7	14	35	42		
50351		13.2	12.9	13.8				
50352		15.0	16.4	17.0				
50353		17.9	15.5	15.6				
50354		15.8	12.7	14.3				
50355		15.2	14.1	14.1				
50356		15.2	15.8	17.7				
50357		14.4	15.4	13.9				
50358		15.1	14.4	16.2				
50359		15.7	14.5	15.6				
50360		16.2	15.5	16.2				
50361		17.7	15.5	16.2				
50362		13.8	14.9	15.6				
n		12	12	12	1	1	1	
Mean	15.43	14.80	15.52	14.30	13.90	14.80		
S.D.	1.39	1.13	1.26					

Food consumption
Sex : Female
Period : F0 gestation Day 0-20
Dose : Isononane 250 mg/kg

Animal No.	/Day			Period : F0 gestation Day 0-20 Dose : Isononane 250 mg/kg	Unit : g	Species : Rat
	7	14	20			
50351	21.3	20.9	23.8			
50352	21.3	23.5	22.3			
50353	21.5	23.0	23.4			
50354	21.8	22.4	22.6			
50356	25.2	26.7	22.8			
50357	20.4	22.8	23.3			
50358	20.9	20.8	21.7			
50359	17.0	19.0	21.6			
50360	20.6 \$	21.7 \$	16.1 \$			
50361	19.8	21.3	20.2			
50362	18.4	21.3	21.8			
n	10	10	10			
Mean	20.76	22.17	22.35			
S.D.	2.18	2.07	1.07			

Animal No. 50360 : Non-pregnancy
\$: Excepted data from calculation

Food consumption
Sex : Female
Period : F0 lactation Day 0-13
Dose : Isononane 250 mg/kg

Animal No.	/Day			Unit : g	Species : Rat
	4	7	13		
50351	27.8	41.2	55.4		
50352	28.9	37.3	46.7		
50353	43.7	39.2	52.1		
50354	...	...	...
50356	28.9	45.8	52.0		
50357	27.9	43.5	47.9		
50358	30.2	43.8	52.1		
50359	30.2	39.9	48.7		
50361	32.8	41.0	55.9		
50362	28.1	40.2	44.9		
n	9	9	9		
Mean	30.94	41.32	50.63		
S.D.	5.04	2.62	3.81		

Animal No. 50354 : Euthanized on lactation Day 0 because of abnormal delivery (stillbirth)

... : Blank

Food consumption
Sex : Female
Period : F0 before mating Day 1-14
Dose : Isononane 1000 mg/kg

Animal No.	Food consumption /Day			Unit : g	Species : Rat
	4	7	14		
50451	16.0	11.2	16.0		
50452	3.2	14.9	17.5		
50453	14.5	12.8	14.0		
50454	16.0	13.5	16.3		
50455	11.3	11.9	14.7		
50456	16.4	13.9	18.8		
50457	8.2	11.7	16.2		
50458	16.5	13.9	16.3		
50459	13.8	13.1	15.3		
50460	12.9	15.0	16.6		
50461	13.6	13.1	15.7		
50462	4.3	0.2	22.3		
n	12	12	12		
Mean	12.23	12.10	16.64		
S.D.	4.63	3.93	2.17		

Food consumption
Sex : Female
Period : FO gestation Day 0-20
Dose : Isononane 1000 mg/kg

Animal No.	Food consumption /Day			Period : FO gestation Day 0-20 Dose : Isononane 1000 mg/kg	Unit : g	Species : Rat
	7	14	20			
50451	21.9	22.3	24.4			
50452	21.5	22.1	24.9			
50453	18.5	20.5	20.8			
50454	20.8	24.4	25.7			
50455	20.1	21.3	21.7			
50456	21.3	22.3	22.1			
50457	20.3	22.7	23.3			
50458	20.6	23.1	22.9			
50459	20.2	22.7	22.1			
50460	19.6	20.9	24.1			
50461	22.2	24.2	24.8			
50462	23.8	25.1	25.0			
n	12	12	12			
Mean	20.90	22.63	23.48			
S.D.	1.37	1.41	1.56			

Food consumption
Sex : Female
Period : F0 lactation Day 0-13
Dose : Isononane 1000 mg/kg

Animal No.	Food consumption /Day			Period : F0 lactation Day 0-13 Dose : Isononane 1000 mg/kg	Unit : g	Species : Rat
	4	7	13			
50451	30.4	42.1	49.2			
50452	30.6	42.9	50.6			
50453	12.7	20.0	23.9			
50454	33.2	47.6	53.7			
50455	20.1	32.5	43.3			
50456	26.4	35.6	46.5			
50457	32.6	40.0	47.5			
50458	33.1	38.0	48.6			
50459	33.2	40.6	51.4			
50460	32.2	39.7	48.2			
50461	...	...	...
50462	37.1	49.5	57.0			
n	11	11	11			
Mean	29.24	38.95	47.26			
S.D.	7.05	7.93	8.56			

Animal No. 50461 : Euthanized on lactation Day 3 because of moribund condition
... : Blank

Food consumption
Sex : Female (satellite)

Animal No.	Period : Administration Day 1-28			Period : Isononane 0 mg/kg			Unit : g	Species : Rat
	/Day	4	7	14	21	28		
50551		15.9	16.8	17.5	15.2	14.9		
50552		15.2	15.3	14.4	14.6	14.7		
50553		17.6	18.3	16.7	16.3	15.8		
50554		14.0	14.1	15.5	14.4	14.1		
50555		15.7	14.8	14.5	14.9	15.8		
50556		15.3	17.6	16.8	16.1	16.5		
50557		18.9	18.9	20.0	18.8	18.5		
50558		17.2	17.5	19.8	17.8	17.5		
50559		15.3	16.1	17.6	17.3	15.7		
50560		15.1	15.6	17.4	16.3	15.9		
n		10	10	10	10	10		
Mean		16.02	16.50	17.02	16.17	15.94		
S.D.		1.45	1.58	1.91	1.45	1.31		

Food consumption
Sex : Female (satellite)

Animal No.	Period : Administration Day 1-28				Unit : g	Species : Rat
	/Day	4	7	14		
50651		10.2	6.0	16.0	16.3	16.8
50652		3.8	0.2	...	...	...
50653		14.4	11.3	16.5	16.5	16.1
50654		14.5	16.7	18.7	19.9	17.9
50655		12.7	11.9	14.5	15.2	16.8
50656		10.1	12.7	16.4	16.6	16.4
50657		15.0	15.1	18.3	17.1	16.8
50658		14.4	13.9	17.5	17.3	16.6
50659		15.2	16.2	18.0	19.0	18.1
50660		12.7	12.2	16.7	17.9	17.1
n		10	10	9	9	9
Mean		12.30	11.62	16.96	17.31	16.96
S.D.		3.51	5.03	1.31	1.44	0.66

Animal No. 50652 : Euthanized on Day 7 because of moribund condition
... : Blank

Animal No.	Food consumption		Period : Recovery Day 1-14 Dose : Isononane 0 mg/kg	Unit : g	Species : Rat
	/Day	Sex : Male			
10101	7	26.2	28.4		
10105		25.0	25.7		
10108		24.6	26.0		
10109		24.2	24.5		
10112		28.3	28.4		
n	5				
Mean	25.66	26.60			
S.D.	1.65	1.74			

Animal No.	Food consumption		Period : Recovery Day 1-14	Unit : g	Species : Rat
	/Day	Sex : Male			
10401	28.5	27.9			
10405	31.3	30.0			
10407	28.0	27.6			
10409	28.8	23.7			
10412	25.8	27.6			
n	5	5			
Mean	28.48	27.36			
S.D.	1.97	2.28			

Animal No.	Food consumption /Day		Period : Recovery Day 1-14 Dose : Isononane 0 mg/kg		Unit : g	Species : Rat
	7	14				
50556	18.7	18.6				
50557	20.8	22.4				
50558	21.1	22.0				
50559	21.5	20.0				
50560	21.2	18.6				
n	5	5				
Mean	20.66	20.32				
S.D.	1.12	1.81				

Animal No.	Food consumption /Day		Period : Recovery Day 1-14 Dose : Isononane 1000 mg/kg		Unit : g	Species : Rat
	7	14				
50656	19.9	19.1				
50657	19.3	17.9				
50658	20.0	19.0				
50659	22.5	21.6				
50660	21.8	21.8				
n	5	5				
Mean	20.70	19.88				
S.D.	1.37	1.73				

Animal No.	Urinary findings				Stage : Week 4				Species : Rat
	Sex : Male	pH	Glucose	Ketone body	Urobilinogen	Dose : Isononane 0 mg/kg	Bilirubin	Occult blood	
					EU/dL				
10101		8.0	-	-	0.1	-	-	-	+
10105		8.5	-	-	0.1	-	-	-	2+
10108		8.5	-	-	0.1	-	-	-	±
10109		8.5	-	-	0.1	-	-	-	±
10112		8.0	-	-	0.1	-	-	-	+
n		5	5	5	5	5	5	5	5

(Color) A : Pale yellow or yellow, B : Orange yellow, C : Red brown, D : Creamy white

Urinary findings			
	Sex : Male	Stage : Week 4	Dose : Isononane 0 mg/kg
Animal No.	Urine volume mL/2/hr	Species : Rat	
10101	10.0		
10105	10.0		
10108	9.5		
10109	13.5		
10112	11.5		
n	5		
Mean	10.90		
S.D.	1.64		

Animal No.	Urinary findings		Species : Rat
	Sex : Male	Specific gravity	
10101	5		
10105	5		
10108	5		
10109	4		
10112	4		
n	5		

Specific gravity) 0:1.001 ~ 1.010, 1:1.011 ~ 1.020, 2:1.021 ~ 1.030, 3:1.031 ~ 1.040, 4:1.041 ~ 1.050, 5:1.050 <

Animal No.	Urinary findings			Stage : Week 4			Species : Rat
	RBC	WBC	Squamous	Round	Small round	Cast	
10101	-	-	-	-	-	-	
10105	-	-	-	-	-	-	
10108	-	-	-	-	-	-	
10109	-	-	-	-	-	-	
10112	-	-	-	-	-	-	
n	5	5	5	5	5	5	

Animal No.	Urinary findings				Stage : Week 4				Species : Rat
	Sex : Male	pH	Glucose	Ketone body	Urobilinogen	Dose : Isononane 60 mg/kg	Bilirubin	Occult blood	
					EU/dL				
10203	8.5	-	-	-	0.1	-	-	-	+
10204	8.5	-	-	-	0.1	-	-	-	+
10206	8.5	-	-	-	0.1	-	-	-	±
10210	8.5	-	-	-	0.1	-	-	-	±
10211	8.5	-	-	-	0.1	-	-	-	+
n	5	5	5	5	5	5	5	5	5

(Color) A : Pale yellow or yellow, B : Orange yellow, C : Red brown, D : Creamy white

Urinary findings			
	Sex : Male	Stage : Week 4	Dose : Isononane 60 mg/kg
Animal No.	Urine volume mL/2/hr	Species : Rat	
10203	6.0		
10204	13.5		
10206	13.0		
10210	9.0		
10211	9.5		
n	5		
Mean	10.20		
S.D.	3.09		

Animal No.	Urinary findings		Species : Rat
	Sex : Male	Specific gravity	
10203	5		
10204	4		
10206	4		
10210	5		
10211	5		
n	5		

Specific gravity) 0:1.001 ~ 1.010, 1:1.011 ~ 1.020, 2:1.021 ~ 1.030, 3:1.031 ~ 1.040, 4:1.041 ~ 1.050, 5:1.050 <

Animal No.	Urinary findings			Stage : Week 4			Species : Rat
	RBC	WBC	Squamous	Round	Small round	Cast	
10203	-	-	-	-	-	-	-
10204	-	-	-	-	-	-	-
10206	-	-	±	-	-	-	-
10210	-	-	-	-	-	-	-
10211	-	-	±	-	-	-	-
n	5	5	5	5	5	5	

Animal No.	Urinary findings				Stage : Week 4				Species : Rat
	Sex : Male	pH	Glucose	Ketone body	Urobilinogen	Dose : Isononane 250 mg/kg	Bilirubin	Occult blood	
					EU/dL				
10303	8.0	-	-	-	0.1	-	-	-	+
10304	8.5	-	-	-	0.1	-	-	-	±
10309	8.0	-	-	-	0.1	-	-	-	±
10310	8.5	-	-	-	0.1	-	-	-	+
10311	8.5	-	-	-	0.1	-	±	A	+
n	5	5	5	5	5	5	5	5	5

(Color) A : Pale yellow or yellow, B : Orange yellow, C : Red brown, D : Creamy white

Urinary findings		
Animal No.	Sex : Male	Urine volume
10303		ml/2/hr
10304		9.0
10309		10.5
10309		34.5
10310		9.0
10311		9.5
	n	5
	Mean	14.50
	S.D.	11.20

Stage : Week 4
Dose : Isononane 250 mg/kg

Species : Rat

Animal No.	Urinary findings		Species : Rat
	Sex : Male	Specific gravity	
10303	5		
10304	5		
10309	2		
10310	5		
10311	5		
n	5		

Specific gravity) 0;1.001~1.010,1;1.011~1.020,2;1.021~1.030,3;1.031~1.040,4;1.041~1.050,5;1.050<

Animal No.	Urinary findings			Stage : Week 4			Species : Rat
	RBC	WBC	Squamous	Round	Small round	Cast	
10303	-	-	±	-	-	-	-
10304	-	-	-	-	-	-	-
10309	-	-	-	-	-	-	-
10310	-	-	-	-	-	-	-
10311	-	-	±	-	-	-	-
n	5	5	5	5	5	5	

Animal No.	Urinary findings				Stage : Week 4				Species : Rat
	Sex : Male	pH	Glucose	Ketone body	Urobilinogen	Dose : Isononane 1000 mg/kg	Bilirubin	Occult blood	
					EU/dL				
10401	8.0	-	-	-	0.1	-	-	-	+
10405	8.5	-	-	-	0.1	-	-	-	±
10407	8.5	-	-	-	0.1	-	-	-	+
10409	7.5	-	-	-	0.1	-	-	-	+
10412	7.5	-	-	-	0.1	-	-	-	+
n	5	5	5	5	5	5	5	5	5

(Color) A : Pale yellow or yellow, B : Orange yellow, C : Red brown, D : Creamy white

Urinary findings			
	Sex : Male	Stage : Week 4	Dose : Isononane 1000 mg/kg
Animal No.	Urine volume mL/2/hr	Species : Rat	
10401	15.0		
10405	12.0		
10407	27.5		
10409	19.5		
10412	15.0		
n	5		
Mean	17.80		
S.D.	6.05		

Animal No.	Urinary findings		Species : Rat
	Sex : Male	Specific gravity	
10401	5		
10405	5		
10407	3		
10409	4		
10412	5		
n	5		

Specific gravity) 0;1.001~1.010,1;1.011~1.020,2;1.021~1.030,3;1.031~1.040,4;1.041~1.050,5;1.050<

Animal No.	Urinary findings			Stage : Week 4			Species : Rat
	RBC	WBC	Squamous	Round	Dose : Isononane 1000 mg/kg	Small round	
10401	-	-	-	-	-	-	-
10405	-	-	±	-	-	-	-
10407	-	-	-	-	-	-	-
10409	-	-	±	-	-	-	-
10412	-	-	±	-	-	-	-
n	5	5	5	5	5	5	5

Animal No.	Urinary findings Sex : Female (satellite)				Stage : Week 4 Dose : Isononane 0 mg/kg				Species : Rat
	pH	Glucose	Ketone body	Urobilinogen	Bilirubin	Occult blood	Color	Protein	
			EU/dL						
50556	8.5	-	-	0.1	-	-	A	+	
50557	8.5	-	-	0.1	-	-	A	+	
50558	8.5	-	-	0.1	-	-	A	+	
50559	8.0	-	-	0.1	-	-	A	±	
50560	8.0	-	-	0.1	-	-	A	+	
n	5	5	5	5	5	5	5	5	

(Color) A : Pale yellow or yellow, B : Orange yellow, C : Red brown, D : Creamy white

Urinary findings		
Animal No.	Sex : Female (satellite)	Dose : Isononane 0 mg/kg
50556		Species : Rat
50557		
50558		
50559		
50560		
n	5	
Mean	6.50	
S.D.	2.62	

Animal No.	Urinary findings		Stage : Week 4 Dose : Isononane 0 mg/kg	Species : Rat
	Sex : Female (satellite)	Specific gravity		
50556	4			
50557	5			
50558	5			
50559	5			
50560	4			
n	5			

Specific gravity) 0:1.001~1.010,1:1.011~1.020,2:1.021~1.030,3:1.031~1.040,4:1.041~1.050,5:1.050<

Animal No.	Urinary findings Sex : Female (satellite)			Stage : Week 4 Dose : Isononane 0 mg/kg			Species : Rat
	RBC	WBC	Squamous	Round	Small round	Cast	
50556	-	-	-	-	-	-	-
50557	-	-	-	-	-	-	-
50558	-	-	-	-	-	-	-
50559	-	-	-	-	-	-	-
50560	-	-	±	-	-	-	-
n	5	5	5	5	5	5	

Animal No.	Urinary findings Sex : Female (satellite)				Stage : Week 4 Dose : Isononane 1000 mg/kg				Species : Rat
	pH	Glucose	Ketone body	Urobilinogen	Bilirubin	Occult blood	Color	Protein	
			EU/dL						
50656	7.0	-	-	0.1	-	-	A	-	
50657	7.0	-	-	0.1	-	-	A	+	
50658	8.0	-	-	0.1	-	-	A	+	
50659	7.5	-	-	0.1	-	-	A	±	
50660	8.0	-	-	0.1	-	-	A	+	
n	5	5	5	5	5	5	5	5	

(Color) A : Pale yellow or yellow, B : Orange yellow, C : Red brown, D : Creamy white

		Urinary findings		Stage : Week 4	Dose : Isononane 1000 mg/kg	Species : Rat
		Sex : Female (satellite)	Urine volume			
Animal No.	mL/24 hr					
50656	19.0					
50657	18.0					
50658	7.0					
50659	12.5					
50660	9.5					
n	5					
Mean	13.20					
S.D.	5.23					

Animal No.	Urinary findings		Stage : Week 4 Dose : Isononane 1000 mg/kg	Species : Rat
	Sex : Female (satellite)	Specific gravity		
50656	3			
50657	3			
50658	5			
50659	4			
50660	5			
n	5			

Specific gravity) 0:1.001~1.010,1:1.011~1.020,2:1.021~1.030,3:1.031~1.040,4:1.041~1.050,5:1.050<

Animal No.	Urinary findings Sex : Female (satellite)			Stage : Week 4 Dose : Isononane 1000 mg/kg			Species : Rat
	RBC	WBC	Squamous	Round	Small round	Cast	
50656	-	-	-	-	-	-	-
50657	-	-	-	-	-	-	-
50658	-	-	+	-	-	-	-
50659	-	-	-	-	-	-	-
50660	-	-	-	-	-	-	-
n	5	5	5	5	5	5	

Animal No.	Urinary findings				Stage : Recovery Week 2 Dose : Isononane 0 mg/kg				Species : Rat
	pH	Sex : Male	Glucose	Ketone body	Urobilinogen EU/dL	Bilirubin	Occult blood	Color	
10101	8.5	-	-	0.1	-	-	-	A	+
10105	8.5	-	-	0.1	-	-	-	A	2+
10108	8.5	-	-	0.1	-	-	-	A	2+
10109	8.5	-	-	0.1	-	±	A	A	±
10112	8.5	-	-	0.1	-	-	A	A	2+
n	5	5	5	5	5	5	5	5	5

(Color) A : Pale yellow or yellow, B : Orange yellow, C : Red brown, D : Creamy white

Urinary findings			
	Sex : Male	Urine volume	Species : Rat
Animal No.		ml/2/hr	
10101		9.5	
10105		12.0	
10108		9.5	
10109		26.0	
10112		12.0	
	n	5	
	Mean	13.80	
	S.D.	6.93	

Animal No.	Urinary findings			Species : Rat
	Sex : Male	Dose : Isononane 0 mg/kg	Specific gravity	
10101		5		
10105		5		
10108		5		
10109		3		
10112		5		
n		5		

Specific gravity) 0:1.001~1.010,1:1.011~1.020,2:1.021~1.030,3:1.031~1.040,4:1.041~1.050,5:1.050<

Animal No.	Urinary findings			Stage : Recovery Week 2		
	RBC	WBC	Squamous	Round	Small round	Cast
10101	-	-	-	-	-	-
10105	-	-	-	-	-	-
10108	-	-	-	-	-	-
10109	-	-	-	-	-	-
10112	-	-	-	-	-	-
n	5	5	5	5	5	5

Animal No.	Urinary findings				Stage : Recovery Week 2				Species : Rat
	Sex : Male	pH	Glucose	Ketone body	Urobilinogen	Dose : Isononane 1000 mg/kg	Bilirubin	Occult blood	
					EU/dL				
10401	8.5	-	-	-	0.1	-	-	-	A 2+
10405	8.5	-	-	-	0.1	-	-	-	A +
10407	8.5	-	-	-	0.1	-	-	-	A 2+
10409	8.0	-	-	-	0.1	-	-	-	A ±
10412	8.0	-	-	-	0.1	-	-	-	A +
n	5	5	5	5	5	5	5	5	

(Color) A : Pale yellow or yellow, B : Orange yellow, C : Red brown, D : Creamy white

Urinary findings			
	Sex : Male	Urine volume	Species : Rat
Animal No.		ml/2/hr	
10401		7.5	
10405		11.5	
10407		13.5	
10409		13.0	
10412		7.5	
	n	5	
	Mean	10.60	
	S.D.	2.92	

Animal No.	Urinary findings		Species : Rat
	Sex : Male	Specific gravity	
10401	5		
10405	5		
10407	5		
10409	4		
10412	5		
n	5		

Specific gravity) 0;1.001~1.010,1;1.011~1.020,2;1.021~1.030,3;1.031~1.040,4;1.041~1.050,5;1.050<

Animal No.	Urinary findings			Stage : Recovery Week 2			Species : Rat
	RBC	WBC	Squamous	Round	Small round	Cast	
10401	-	-	-	-	-	-	
10405	-	-	-	-	-	-	
10407	-	-	-	-	-	-	
10409	-	-	-	-	-	-	
10412	-	-	-	-	-	-	
n	5	5	5	5	5	5	

Animal No.	Urinary findings Sex : Female (satellite)				Stage : Recovery Week 2 Dose : Isononane 0 mg/kg				Species : Rat
	pH	Glucose	Ketone body	Urobilinogen	Bilirubin	Occult blood	Color	Protein	
50556	8.5	-	-	0.1	-	-	A	+	
50557	8.5	-	-	0.1	-	-	A	+	
50558	8.0	-	-	0.1	-	-	A	+	
50559	8.5	-	-	0.1	-	-	A	±	
50560	8.5	-	-	0.1	-	-	A	±	
n	5	5	5	5	5	5	5	5	

(Color) A : Pale yellow or yellow, B : Orange yellow, C : Red brown, D : Creamy white

		Stage : Recovery Week 2		Species : Rat
		Sex : Female (satellite)	Dose : Isononane 0 mg/kg	
Animal No.		Urine volume		
ml/2/hr				
50556		5.5		
50557		19.5		
50558		6.5		
50559		6.0		
50560		37.5 \$		
<i>n</i>		4		
Mean		9.38		
S.D.		6.76		

\$: Excepted data from calculation

Animal No.	Urinary findings		Stage : Recovery Week 2 Dose : Isononane 0 mg/kg	Species : Rat
	Sex : Female (satellite)	Specific gravity		
50556	5			
50557	3			
50558	5			
50559	5			
50560	1 \$			
n	4			

Specific gravity) 0;1.001~1.010;1;1.011~1.020;2;1.021~1.030;3;1.031~1.040;4;1.041~1.050;5;1.050<
\$: Excepted data from calculation

Animal No.	Urinary findings			Stage : Recovery Week 2		
	RBC	Female (satellite)	WBC	Squamous	Round	Dose : Isononane 0 mg/kg
50556	-	-	-	-	-	Cast
50557	-	-	-	-	-	-
50558	-	-	-	-	-	-
50559	-	-	-	-	-	-
50560	-	-	-	-	-	-
n	5	5	5	5	5	5

Animal No.	Urinary findings Sex : Female (satellite)				Stage : Recovery Week 2 Dose : Isononane 1000 mg/kg				Species : Rat
	pH	Glucose	Ketone body	Urobilinogen	Bilirubin	Occult blood	Color	Protein	
			EU/dL						
50656	8.5	-	-	0.1	-	-	A	±	
50657	8.5	-	-	0.1	-	-	A	+	
50658	8.5	-	-	0.1	-	-	A	+	
50659	8.5	-	-	0.1	-	-	A	+	
50660	8.5	-	-	0.1	-	-	A	+	
n	5	5	5	5	5	5	5	5	

(Color) A : Pale yellow or yellow, B : Orange yellow, C : Red brown, D : Creamy white

		Stage : Recovery Week 2		Species : Rat
		Sex : Female (satellite)	Dose : Isononane 1000 mg/kg	
		Urine volume		
Animal No.		ml/2/hr		
50656		11.0		
50657		18.0		
50658		15.0		
50659		11.5		
50660		10.5		
	n	5		
	Mean	13.20		
	S.D.	3.21		

Animal No.	Urinary findings		Species : Rat
	Sex : Female (satellite)	Specific gravity	
50656	4		
50657	3		
50658	3		
50659	5		
50660	5		
n	5		

Specific gravity) 0;1.001~1.010,1;1.011~1.020,2;1.021~1.030,3;1.031~1.040,4;1.041~1.050,5;1.050<

Animal No.	Urinary findings			Stage : Recovery Week 2		
	RBC	Female (satellite)	WBC	Squamous	Round	Dose : Isononane 1000 mg/kg Small round Cast
50656	-	-	-	-	-	-
50657	-	-	-	-	-	-
50658	-	-	-	-	-	-
50659	-	-	-	-	-	-
50660	-	-	-	-	-	-
n	5	5	5	5	5	5

Animal No.	Hematological findings						Stage : Day 29						Species : Rat	
	Sex : Male		RBC	HGB	HCT	MCV	MCH	MCHC	Reticulocyte	Platelet	WBC	Neutrophil	Lymphocyte	
	10 ⁴ /µL	g/dL	%	fL	pg	g/dL	g/dL	%	10 ⁴ /µL	10 ² /µL	10 ² /µL	10 ² /µL	10 ² /µL	
10102	877	14.9	41.7	47.5	17.0	35.7	3.15	89.9	123.7	19.1	19.1	98.3		
10103	889	16.0	43.7	49.2	18.0	36.6	3.29	105.7	100.7	18.9	18.9	75.6		
10104	838	15.1	43.6	52.0	18.0	34.6	3.51	76.7	65.7	13.9	13.9	48.4		
10106	894	16.2	45.2	50.6	18.1	35.8	2.89	116.0	75.2	13.0	13.0	56.0		
10107	870	16.2	45.7	52.5	18.6	35.4	3.52	99.2	85.9	17.4	17.4	62.4		
n	5	5	5	5	5	5	5	5	5	5	5	5	5	
Mean	873.6	15.68	43.98	50.36	17.94	35.62	3.272	97.50	90.24	16.46	16.46	68.14		
S.D.	22.1	0.63	1.57	2.05	0.58	0.72	0.264	15.02	22.78	2.84	2.84	19.59		
	Monocyte	Eosinophil	Basophil	PT	APTT									
Animal No.	10 ³ /µL	10 ² /µL	10 ² /µL	sec	sec									
10102	4.9	1.4	0.0	17.4	20.6									
10103	4.9	1.3	0.0	16.2	19.5									
10104	2.8	0.6	0.0	15.8	17.2									
10106	5.4	0.7	0.1	15.9	19.6									
10107	5.0	1.1	0.0	16.4	20.1									
n	5	5	5	5	5									
Mean	4.60	1.02	0.02	16.34	19.40									
S.D.	1.03	0.36	0.04	0.64	1.31									

Animal No.	Hematological findings						Stage : Day 29 Dose : Isononane 60 mg/kg						Species : Rat		
	RBC	HGB	HCT	MCV	MCH	MCHC	Reticulocyte	Platelet	WBC	Neutrophil	Lymphocyte				
	10 ⁴ /µL	g/dL	%	fL	pg	g/dL	%	10 ⁴ /µL	10 ² /µL	10 ² /µL	10 ² /µL				
10201	839	15.4	43.2	51.5	18.4	35.6	2.98	90.0	83.6	11.7	67.4				
10202	927	16.7	46.5	50.2	18.0	35.9	3.08	88.7	76.0	15.0	55.8				
10205	875	15.1	42.3	48.3	17.3	35.7	3.13	84.1	70.4	10.9	55.0				
10207	889	16.2	45.0	50.6	18.2	36.0	3.04	103.4	82.7	10.6	66.5				
10208	837	15.1	42.7	51.0	18.0	35.4	3.30	103.4	66.0	9.4	52.3				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	873.4	15.70	43.94	50.32	17.98	35.72	3.106	93.92	75.74	11.52	59.40				
S.D.	37.5	0.72	1.76	1.23	0.41	0.24	0.122	8.93	7.64	2.11	7.02				
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Animal No.	Monocyte	Eosinophil	Basophil	PT	APTT										
	10 ³ /µL	10 ² /µL	10 ² /µL	sec	sec	sec	sec	sec	sec	sec	sec	sec	sec		
10201	3.7	0.8	0.0	17.8	19.9										
10202	4.0	1.2	0.0	16.4	20.9										
10205	3.0	1.5	0.0	16.3	18.6										
10207	4.1	1.5	0.0	16.3	19.9										
10208	3.2	1.1	0.0	21.6	22.4										
n	5	5	5	5	5										
Mean	3.60	1.22	0.00	17.68	20.34										
S.D.	0.48	0.29	0.00	2.28	1.41										

Animal No.	Hematological findings						Stage : Day 29 Dose : Isononane 250 mg/kg						Species : Rat		
	RBC	HGB	HCT	MCV	MCH	MCHC	Reticulocyte	Platelet	WBC	Neutrophil	Lymphocyte	10 ³ /µL	10 ³ /µL	10 ³ /µL	
10301	10 ⁴ /µL	g/dL	%	fL	pg	g/dL	%	10 ⁴ /µL	10 ³ /µL	10 ³ /µL	10 ³ /µL	81.1	21.6	83.1	
10301	819	14.8	42.3	51.6	18.1	35.0	3.52	99.3	111.5	105.6	22.6	75.8			
10302	837	15.0	42.0	50.2	17.9	35.7	2.81	116.5	104.9	74.6	11.3	59.8			
10305	867	16.4	46.2	53.3	18.9	35.5	2.77	104.9	74.6	106.9	97.6	19.5	72.4		
10306	847	15.6	44.9	53.0	18.4	34.7	2.54	106.9	97.6	82.6	24.0	52.6			
10307	900	14.9	42.6	47.3	16.6	35.0	3.05	116.7	116.7						
n	5	5	5	5	5	5	5	5	5				5	5	
Mean	854.0	15.34	43.60	51.08	17.98	35.18	2.938	108.86	94.38				19.80	68.74	
S.D.	31.0	0.67	1.85	2.45	0.86	0.41	0.372	7.60	15.49				5.03	12.35	
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Animal No.	Monocyte	Eosinophil	Basophil	PT	APTT										
10301	10 ³ /µL	10 ³ /µL	10 ³ /µL	sec	sec										
10301	5.5	1.2	0.1	16.8	20.9										
10302	6.3	0.8	0.1	17.9	20.6										
10305	2.9	0.6	0.0	16.6	18.9										
10306	4.4	1.3	0.0	17.0	22.9										
10307	4.4	1.6	0.0	18.0	21.1										
n	5	5	5	5	5										
Mean	4.70	1.10	0.04	17.26	20.88										
S.D.	1.29	0.40	0.05	0.65	1.43										

Animal No.	Hematological findings						Stage : Day 29 Dose : Isononane 1000 mg/kg						Species : Rat		
	RBC	HGB	HCT	MCV	MCH	MCHC	Reticulocyte	Platelet	WBC	Neutrophil	Lymphophil	10 ² /µL			
10402	10 ⁴ /µL	g/dL	%	fL	pg	g/dL	%	10 ⁴ /µL	10 ² /µL	10 ² /µL	10 ² /µL	10 ² /µL	14.7	73.6	
10402	848	15.2	42.9	50.6	17.9	35.4	2.92	126.9	92.7	90.3	25.1	59.2			
10403	854	16.0	46.3	54.2	18.7	34.6	3.39	118.0	90.3	90.3	25.1	59.2			
10404	892	16.3	45.7	51.2	18.3	35.7	2.82	105.9	97.2	97.2	9.0	84.5			
10406	789	14.0	40.2	51.0	17.7	34.8	6.54	129.0	84.7	84.7	14.7	66.1			
10408	835	15.3	42.4	50.8	18.3	36.1	3.50	123.9	72.2	72.2	22.5	44.4			
n	5	5	5	5	5	5	5	5	5	5	5	5			
Mean	843.6	15.36	43.50	51.56	18.18	35.32	3.834	120.74	87.42	87.42	17.20	65.56			
S.D.	37.2	0.89	2.51	1.49	0.39	0.62	1.541	9.27	9.63	9.63	6.52	15.10			
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Animal No.	Monocyte	Eosinophil	Basophil	PT	APTT										
10402	10 ² /µL	10 ² /µL	10 ² /µL	sec	sec										
10402	3.4	1.0	0.0	19.5	24.7										
10403	5.2	0.8	0.0	20.3	21.8										
10404	3.2	0.5	0.0	20.5	25.8										
10406	3.2	0.7	0.0	18.3	21.3										
10408	4.2	1.1	0.0	16.8	18.4										
n	5	5	5	5	5										
Mean	3.84	0.82	0.00	19.08	22.40										
S.D.	0.86	0.24	0.00	1.54	2.93										

Animal No.	Hematological findings Sex : Female			Stage : Day 14 after delivery Dose : Isononane 0 mg/kg						Species : Rat		
	RBC $10^4/\mu\text{L}$	HGB g/dL	HCT %	MCV fl	MCH pg	MCHC g/dL	Reticulocyte %	Platelet $10^4/\mu\text{L}$	WBC $10^2/\mu\text{L}$	Neutrophil $10^2/\mu\text{L}$	Lymphocyte $10^2/\mu\text{L}$	
50152	755	14.6	40.0	53.0	19.3	36.5	3.57	115.8	129.2	50.4	73.0	
50153	826	16.1	45.5	55.1	19.5	35.4	3.66	92.0	90.9	45.2	43.5	
50156	744	15.1	42.3	56.9	20.3	35.7	4.16	117.0	106.7	39.5	57.8	
50161	690	14.6	40.9	59.3	21.2	35.7	5.10	107.6	132.6	57.9	67.2	
50162	727	15.1	42.6	58.6	20.8	35.4	4.38	101.0	98.5	43.3	53.5	
n	5	5	5	5	5	5	5	5	5	5	5	
Mean	748.4	15.10	42.26	56.58	20.22	35.74	4.174	106.68	111.58	47.26	59.00	
S.D.	49.9	0.61	2.10	2.58	0.82	0.45	0.618	10.47	18.54	7.13	11.57	
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Animal No.	Monocyte $10^2/\mu\text{L}$	Eosinophil $10^2/\mu\text{L}$	Basophil $10^2/\mu\text{L}$	PT $10^2/\mu\text{L}$	APTT sec							
50152	4.9	0.9	0.0	16.1	12.8							
50153	1.4	0.7	0.1	16.9	15.0							
50156	7.6	1.7	0.1	17.1	12.4							
50161	6.9	0.5	0.1	16.0	11.8							
50162	1.3	0.4	0.0	17.4	15.6							
n	5	5	5	5	5							
Mean	4.42	0.84	0.06	16.70	13.52							
S.D.	2.97	0.52	0.05	0.62	1.68							

Animal No.	Hematological findings Sex : Female			Stage : Day 14 after delivery Dose : Isoniazide 60 mg/kg						Species : Rat		
	RBC	HGB	HCT	MCV	MCH	MCHC	Reticulocyte	Platelet	WBC	Neutrophil	Lymphocyte	
50251	10 ⁴ /μL	15.7	%	42.5	pg	g/dL	10 ⁴ /μL	10 ² /μL	10 ² /μL	44.2	56.0	
50251	785	732	14.0	38.9	54.1	19.1	36.9	36.0	4.01	74.3	35.0	
50255	744	744	14.9	43.0	53.1	19.1	36.0	34.7	3.93	112.7	85.4	
50256	758	15.1	40.9	54.0	57.8	20.0	34.7	36.9	3.41	109.4	116.0	
50260	730	14.4	40.5	55.5	54.0	19.9	36.9	35.6	5.07	97.0	116.0	
50261	n	5	5	5	5	19.7	35.6	55.6	5.07	94.8	60.2	
Mean	749.8	14.82	41.16	54.90	19.74	19.74	36.02	4.076	105.76	95.60	44.00	
S.D.	22.6	0.65	1.64	1.83	0.38	0.93	0.93	0.606	8.51	16.70	8.29	
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Animal No.	Monocyte	Eosinophil	Basophil	PT	APTT							
50251	10 ² /μL	10 ² /μL	10 ² /μL	sec	sec							
50255	5.6	1.6	0.1	16.2	13.5							
50256	4.0	1.3	0.0	15.7	15.4							
50260	4.4	0.5	0.0	16.7	14.4							
50261	6.6	1.1	0.0	15.6	12.4							
n	7.7	1.0	0.0	15.7	13.0							
Mean	5.66	1.10	0.02	15.98	13.74							
S.D.	1.53	0.41	0.04	0.47	1.18							

Animal No.	Hematological findings Sex : Female				Stage : Day 14 after delivery Dose : Isononane 250 mg/kg				Species : Rat			
	RBC	HGB	HCT	MCV	MCH	MCHC	Reticulocyte	Platelet	WBC	Neutrophil	Lymphophil	10 ² /µL
50352	10 ⁴ /µL	g/dL	%	fL	pg	g/dL	%	10 ⁴ /µL	10 ² /µL	10 ² /µL	10 ² /µL	
50352	752	15.2	41.5	55.2	20.2	36.6	4.97	89.8	106.6	41.3	60.4	
50353	729	14.9	42.6	58.4	20.4	35.0	3.98	115.9	67.3	28.5	34.9	
50357	720	15.8	43.6	60.6	21.9	36.2	4.79	86.3	76.7	43.9	29.8	
50361	820	17.1	48.5	59.1	20.9	35.3	3.65	110.2	77.8	42.1	33.6	
50362	825	15.2	42.0	50.9	18.4	36.2	4.09	94.8	107.7	43.2	56.7	
n	5	5	5	5	5	5	5	5	5	5	5	
Mean	769.2	15.64	43.64	56.84	20.36	35.86	4.296	99.40	87.22	39.80	43.08	
S.D.	50.1	0.88	2.83	3.86	1.28	0.68	0.561	12.98	18.65	6.40	14.31	
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Animal No.	Monocyte	Eosinophil	Basophil	PT	APTT							
50352	10 ² /µL	10 ² /µL	10 ² /µL	sec	sec							
50353	4.5	0.3	0.1	16.7	12.7							
50357	3.5	0.4	0.0	16.5	13.2							
50361	2.5	0.5	0.0	17.7	13.4							
50362	1.1	0.9	0.1	16.5	12.1							
n	5	5	5	5	5							
Mean	3.70	0.60	0.04	16.80	13.08							
S.D.	2.19	0.28	0.05	0.51	0.72							

Animal No.	Hematological findings Sex : Female				Stage : Day 14 after delivery Dose : Isononane 1000 mg/kg				Species : Rat			
	RBC	HGB	HCT	MCV	MCH	MCHC	Reticulocyte	Platelet	WBC	Neutrophil	Lymphophil	10 ² /µL
50453	787	15.6	44.1	56.0	19.8	35.4	4.31	121.7	61.3	22.2	34.1	
50454	740	15.2	42.1	56.9	20.5	36.1	4.71	105.1	77.2	42.6	32.6	
50457	803	15.5	42.2	52.6	19.3	36.7	3.35	93.0	87.2	49.3	34.2	
50460	767	15.5	44.2	57.6	20.2	35.1	5.02	101.7	128.1	48.3	74.6	
50462	718	14.7	40.8	56.8	20.5	36.0	4.33	107.4	85.2	52.8	30.2	
n	5	5	5	5	5	5	5	5	5	5	5	5
Mean	763.0	15.30	42.68	55.98	20.06	35.86	4.344	105.78	87.80	43.04	41.14	
S.D.	34.4	0.37	1.45	1.97	0.51	0.63	0.629	10.45	24.73	12.21	18.77	
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Animal No.	Monocyte	Eosinophil	Basophil	PT	APTT							
50453	4.2	0.7	10 ² /µL	10 ² /µL	sec	sec	sec	sec	sec	sec	sec	
50454	1.5	0.5		0.1		15.2		12.4				
50457	2.5	1.2		0.0		16.3		12.0				
50460	4.7	0.4		0.1		16.3		12.3				
50462	2.0	0.2		0.0		17.2		12.4				
n	5	5		5		15.6		13.6				
Mean	2.98	0.60		0.04		16.12		12.54				
S.D.	1.40	0.38		0.05		0.77		0.61				

Animal No.	Hematological findings Sex : Female (satellite)			Stage : Day 29 Dose : Isononane 0 mg/kg						Species : Rat		
	RBC $10^4/\mu\text{L}$	HGB g/dL	HCT %	MCV fL	MCH pg	MCHC g/dL	Reticulocyte %	Platelet $10^9/\mu\text{L}$	WBC $10^2/\mu\text{L}$	Neutrophil $10^2/\mu\text{L}$	Lymphocyte $10^2/\mu\text{L}$	
50551	796	15.4	43.0	54.0	19.3	35.8	2.53	99.6	42.8	6.9	33.3	
50552	776	14.7	40.0	51.5	18.9	36.8	3.52	112.0	36.5	6.2	28.8	
50553	796	15.1	41.4	52.0	19.0	36.5	2.85	104.5	48.6	8.5	38.4	
50554	800	15.1	41.5	51.9	18.9	36.4	2.28	83.3	40.4	10.5	27.3	
50555	822	15.2	42.0	51.1	18.5	36.2	2.80	120.8	41.1	9.7	29.2	
n	5	5	5	5	5	5	5	5	5	5	5	
Mean	798.0	15.10	41.58	52.10	18.92	36.34	2.796	104.04	41.88	8.36	31.40	
S.D.	16.4	0.25	1.09	1.12	0.29	0.37	0.465	14.09	4.41	1.82	4.50	
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Animal No.	Monocyte			Eosinophil	Basophil	PT	APTT					
	$10^2/\mu\text{L}$	$10^2/\mu\text{L}$	$10^2/\mu\text{L}$	$10^2/\mu\text{L}$	$10^2/\mu\text{L}$	sec	sec					
50551	1.4	1.2	0.0	0.0	0.0	17.4	14.5					
50552	1.0	0.5	0.0	0.0	0.0	16.2	16.9					
50553	0.9	0.8	0.0	0.0	0.0	15.9	13.5					
50554	1.9	0.7	0.0	0.0	0.0	16.4	15.4					
50555	1.4	0.8	0.0	0.0	0.0	15.9	15.0					
n	5	5	5	5	5	5	5					
Mean	1.32	0.80	0.00	0.00	0.00	16.36	15.06					
S.D.	0.40	0.25	0.00	0.00	0.00	0.62	1.25					

Animal No.	Hematological findings Sex : Female (satellite)						Stage : Day 29 Dose : Isononane 1000 mg/kg					
	RBC		HGB		HCT		MCV		MCH		MCHC	
	10 ⁴ /µL	g/dL	%	fL	pg	g/dL	%	g/dL	%	10 ³ /µL	10 ² /µL	10 ² /µL
50651	770	14.8	41.1	53.4	19.2	36.0	3.31	113.0	42.6	12.9	10 ² /µL	27.6
50653	760	13.5	38.3	50.4	17.8	35.2	2.60	102.7	31.1	4.1	10 ² /µL	25.6
50654	823	15.1	43.1	52.4	18.3	35.0	3.04	98.3	28.2	6.7	10 ² /µL	20.9
50655	809	14.6	40.2	49.7	18.0	36.3	2.45	110.2	62.2	8.8	10 ² /µL	48.5
n	4	4	4	4	4	4	4	4	4	4	10 ² /µL	4
Mean	790.5	14.50	40.68	51.48	18.33	35.63	2.850	106.05	41.03	8.13	10 ² /µL	30.65
S.D.	30.3	0.70	1.99	1.72	0.62	0.62	0.396	6.75	15.43	3.72	10 ² /µL	12.23
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Monocyte Eosinophil Basophil PT APTT												
Animal No.	10 ² /µL	10 ² /µL	10 ² /µL	10 ² /µL	sec	sec	sec	sec	sec	sec	sec	sec
50651	1.6	0.5	0.0	0.0	16.0	13.4						
50653	0.7	0.7	0.0	0.0	15.4	19.2						
50654	0.4	0.2	0.0	0.0	15.4	19.6						
50655	3.8	1.1	0.0	0.0	15.1	16.5						
n	4	4	4	4	4	4	4	4	4	4	10 ² /µL	4
Mean	1.63	0.63	0.00	0.00	15.48	17.18						
S.D.	1.54	0.38	0.00	0.00	0.38	2.87						

Animal No.	Hematological findings						Stage : Recovery Day 15 Dose : Isononane 0 mg/kg						Species : Rat		
	RBC	HGB	HCT	MCV	MCH	MCHC	Reticulocyte	Platelet	WBC	Neutrophil	Lymphocyte	10 ³ /µL	10 ³ /µL	10 ³ /µL	
10101	879	15.5	43.0	48.9	17.6	36.0	2.92	110.2	63.8	9.5	50.9	50.9	69.1	11.0	
10105	878	16.1	44.3	50.5	18.3	36.3	3.01	106.0	69.1	11.0	54.0	54.0	80.4	11.3	
10108	916	16.9	46.7	51.0	18.4	36.2	2.38	87.7	71.0	12.8	62.6	62.6	120.9	12.8	
10109	971	17.6	49.0	50.5	18.1	35.9	2.48	120.9	71.0	12.8	52.8	52.8	102.0	18.4	
10112	916	16.9	47.2	51.5	18.4	35.8	1.62	111.7	111.7	18.4	83.4	83.4	111.7	18.4	
n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Mean	912.0	16.60	46.04	50.48	18.16	36.04	2.482	105.36	79.20	12.60	60.74	60.74	12.13	19.13	
S.D.	37.9	0.81	2.39	0.98	0.34	0.21	0.553	0.553	3.45	3.45	13.44	13.44			
Monocyte															
Animal No.	10 ³ /µL	10 ³ /µL	10 ³ /µL	10 ³ /µL	sec	sec	sec	PT	APTT						
10101	2.4	1.0	0.0	0.0	17.4	18.1	18.1								
10105	2.9	1.2	0.0	0.0	18.6	23.4	23.4								
10108	4.9	1.6	0.0	0.0	17.2	19.2	19.2								
10109	4.2	1.1	0.1	0.1	16.7	21.6	21.6								
10112	8.4	1.5	0.0	0.0	19.0	21.6	21.6								
n	5	5	5	5	5	5	5								
Mean	4.56	1.28	0.02	0.02	17.78	20.78	20.78								
S.D.	2.37	0.26	0.04	0.98	2.11	2.11	2.11								

Hematological findings		Stage : Recovery Day 15 Dose : Isoniazide 1000 mg/kg						Species : Rat					
Sex	Male	RBC	HGB	HCT	MCV	MCH	MCHC	Reticulocyte	Platelet	WBC	Neutrophil	Lymphocyte	
		Animal No.	10 ⁹ /µL	g/dL	%	fL	pg	g/dL	%	10 ³ /µL	10 ³ /µL	10 ³ /µL	
10401		857	14.9	41.5	48.4	17.4	35.9	2.90	118.8	100.4	17.0	76.4	
10405		889	14.7	41.0	46.1	16.5	35.9	2.60	113.1	60.1	12.3	43.9	
10407		974	16.3	44.8	46.0	16.7	36.4	2.65	154.2	124.5	21.4	95.1	
10409		908	16.2	45.0	49.6	17.8	36.0	2.39	118.8	112.5	9.7	96.8	
10412		840	15.7	43.9	52.3	18.7	35.8	2.99	99.6	112.4	24.1	83.2	
n		Mean	893.6	15.56	43.24	48.48	17.42	36.00	2.706	120.90	101.98	5	5
		S.D.	52.2	0.73	1.87	2.63	0.89	0.23	0.241	20.20	24.91	6.02	21.40
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Monocyte		Eosinophil	Basophil	PT	APTT								
		Animal No.	10 ³ /µL	10 ³ /µL	10 ³ /µL	sec	sec	sec	sec	sec			
10401		5.9	1.0	0.1	15.9	19.7							
10405		2.6	1.3	0.0	16.2	21.1							
10407		5.6	2.3	0.1	18.0	22.8							
10409		5.2	0.8	0.0	21.4	21.4							
10412		4.3	0.7	0.1	17.1	20.9							
n		Mean	4.72	1.22	0.06	17.72	21.18						
		S.D.	1.33	0.65	0.05	2.22	1.11						

Animal No.	Hematological findings Sex : Female (satellite)			Stage : Recovery Day 15 Dose : Isononane 0 mg/kg						Species : Rat		
	RBC	HGB	HCT	MCV	MCH	MCHC	Reticulocyte	Platelet	WBC	Neutrophil	Lymphocyte	
50556	829	15.9	44.6	53.8	19.2	35.7	3.40	122.0	10 ³ /µL	44.9	10.0	31.9
50557	825	15.2	41.9	50.8	18.4	36.3	2.88	106.4	63.9	11.6	48.3	48.3
50558	800	15.5	41.8	52.3	19.4	37.1	2.71	102.5	56.0	6.4	46.0	46.0
50559	902	16.0	44.0	48.8	17.7	36.4	2.47	105.8	43.4	10.2	29.4	29.4
50560	823	15.5	43.1	52.4	18.8	36.0	2.25	113.8	59.4	11.6	44.0	44.0
n	5	5	5	5	5	5	5	5	5	5	5	5
Mean	835.8	15.62	43.08	51.62	18.70	36.30	2.742	110.10	53.52	9.96	39.92	39.92
S.D.	38.7	0.33	1.24	1.90	0.68	0.52	0.438	7.83	9.02	2.13	8.64	8.64
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Animal No.	Monocyte			Eosinophil	Basophil	PT	APTT					
	10 ² /µL	10 ² /µL	10 ² /µL	10 ³ /µL	sec	sec						
50556	2.5	0.5	0.0	16.4	12.7							
50557	3.0	1.0	0.0	16.0	14.5							
50558	2.4	1.2	0.0	15.6	16.5							
50559	2.5	1.3	0.0	15.9	14.8							
50560	2.3	1.5	0.0	16.0	13.2							
n	5	5	5	5	5	5						
Mean	2.54	1.10	0.00	15.98	14.34							
S.D.	0.27	0.38	0.00	0.29	1.49							

Animal No.	Hematological findings Sex : Female (satellite)			Stage : Recovery Day 15 Dose : Isononane 1000 mg/kg								Species : Rat		
	RBC	HGB	HCT	MCV	MCH	MCHC	Reticulocyte	Platelet	WBC	Neutrophil	Lymphocyte	10 ³ /µL	10 ³ /µL	10 ³ /µL
50656	884	15.8	43.3	49.0	17.9	36.5	2.27	116.1	54.8	4.9	46.9			
50657	873	16.0	44.7	51.2	18.3	35.8	2.58	118.2	56.0	7.7	44.7			
50658	824	15.8	44.3	53.8	19.2	35.7	2.98	109.7	67.4	6.3	58.5			
50659	881	16.2	45.0	51.1	18.4	36.0	2.67	119.9	78.1	10.7	62.0			
50660	786	15.7	44.0	56.0	20.0	35.7	2.95	104.8	85.8	13.6	66.4			
n	5	5	5	5	5	5	5	5	5	5	5			
Mean	849.6	15.90	44.26	52.22	18.76	35.94	2.690	113.74	68.42	8.64	55.70			
S.D.	43.1	0.20	0.66	2.71	0.84	0.34	0.292	6.32	13.57	3.51	9.49			
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Animal No.	Monocyte			Eosinophil	Basophil	PT	APTT							
	10 ³ /µL	10 ³ /µL	10 ³ /µL	10 ³ /µL	sec	sec	sec							
50656	1.7	1.3	0.0	15.6	16.6									
50657	2.0	1.6	0.0	15.9	15.2									
50658	1.8	0.8	0.0	15.4	15.9									
50659	3.1	2.3	0.0	16.7	15.1									
50660	4.4	1.4	0.0	17.1	15.3									
n	5	5	5	5	5	5	5							
Mean	2.60	1.48	0.00	16.14	15.62									
S.D.	1.15	0.54	0.00	0.73	0.63									

Animal No.	Biochemical findings Sex : Male						Stage : Day 29 Dose : Isononane 0 mg/kg						Species : Rat		
	AST IU/L	ALT IU/L	ALP IU/L	γ -GTP IU/L	T-Bil mg/dL	TBA μ mol/L	Glucose mg/dL	T-Cho mg/dL	TG mg/dL	TP g/dL	UN mg/dL				
10102	95	50	489	0.8	0.06	20.1	150	29	18	5.2	11.6				
10103	63	31	553	0.3	0.05	8.7	151	39	38	5.2	13.8				
10104	67	28	530	0.5	0.06	5.5	155	56	35	5.3	12.7				
10106	69	29	570	0.5	0.05	18.1	141	67	20	5.4	10.5				
10107	57	24	511	0.6	0.05	5.6	159	60	62	5.7	9.8				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	70.2	32.4	530.6	0.54	0.054	11.60	151.2	50.2	34.6	5.36	11.68				
S.D.	14.6	10.2	32.3	0.18	0.005	7.00	6.7	15.7	17.7	0.21	1.62				
Animal No.	Biochemical findings Sex : Male						Stage : Day 29 Dose : Isononane 0 mg/kg						Species : Rat		
	Crea mg/dL	Na mEq/L	K mEq/L	Cl mEq/L	Ca mg/dL	IP mg/dL	A/G	A/G	Albumin g/dL	Albumin %	α 1-G %	α 2-G %			
10102	0.32	142	4.54	106	9.0	5.8	1.01	2.61	50.2	22.4	7.1				
10103	0.33	143	4.43	104	9.3	5.9	0.89	2.45	47.1	24.1	8.5				
10104	0.30	143	4.32	107	9.2	5.7	0.89	2.50	47.1	24.2	8.9				
10106	0.28	143	4.61	103	9.0	6.6	0.93	2.61	48.3	22.6	9.2				
10107	0.22	143	4.44	106	9.9	6.5	0.87	2.66	46.6	24.0	9.1				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	0.290	142.8	4.468	105.2	9.28	6.10	0.918	2.566	47.86	23.46	8.56				
S.D.	0.044	0.4	0.111	1.6	0.37	0.42	0.056	0.087	1.45	0.88	0.86				
β-G γ-G															
Animal No.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
10102	15.8	4.5													
10103	16.2	4.1													
10104	16.6	3.2													
10106	15.6	4.3													
10107	15.8	4.5													
n	5	5													
Mean	16.00	4.12													
S.D.	0.40	0.54													

Animal No.	Biochemical findings Sex : Male						Stage : Day 29 Dose : Isononane 60 mg/kg						Species : Rat			
	AST IU/L	ALT IU/L	ALP IU/L	γ-GTP IU/L	T-Bil mg/dL	TBA μmol/L	Glucose mg/dL	T-Cho mg/dL	TG mg/dL	TP g/dL	UN mg/dL					
10201	84	33	395	0.7	0.06	12.6	144	48	19	5.5	14.0					
10202	63	37	379	0.5	0.06	37.2	147	60	32	5.4	14.1					
10205	67	28	406	0.3	0.07	22.8	152	63	22	5.3	12.7					
10207	72	26	389	0.6	0.05	10.8	156	62	24	5.3	10.3					
10208	55	27	256	0.7	0.03	21.2	144	51	16	5.1	13.3					
n	5	5	5	5	5	5	5	5	5	5	5					
Mean	68.2	30.2	365.0	0.56	0.054	20.92	148.6	56.8	22.6	5.32	12.88					
S.D.	10.8	4.7	61.7	0.17	0.015	10.49	5.3	6.8	6.1	0.15	1.55					
Animal No.	Crea mg/dL						Na mEq/L						α2-G			
	0.37	143	4.64	104	9.2	mg/dL	0.33	143	4.19	105	9.1	5.6	2.74	49.9	7.3	
10201	0.37	143	4.64	104	9.2	mg/dL	10202	0.33	143	4.19	105	9.1	0.98	2.67	49.4	8.6
10202	0.27	142	4.54	103	9.6	mg/dL	10205	0.27	142	4.54	103	9.6	0.88	2.48	46.7	9.9
10205	0.24	143	4.66	104	9.4	mg/dL	10207	0.24	143	4.66	104	9.4	0.95	2.59	48.8	10.3
10207	0.30	144	5.12	106	9.2	mg/dL	10208	0.30	144	5.12	106	7.4	0.81	2.28	44.7	9.4
10208	5	5	5	5	5	mg/dL	n	5	5	5	5	5	5	5	5	
n	0.302	143.0	4.630	104.4	9.30	mg/dL	Mean	0.051	0.7	0.333	1.1	0.20	0.68	0.078	47.90	9.10
S.D.	0.051	0.7	0.333	1.1	0.20	mg/dL	S.D.						0.180	0.055	22.08	1.19
Animal No.	β-G %						γ-G %						α1-G			
	10201	15.4	5.5				10202	14.9	4.5				2.74	49.9	7.3	
10202	16.6	4.5					10205	16.3	3.4				2.67	49.4	8.6	
10205	16.4	7.1					10207	16.3	3.4				2.48	46.7	9.9	
10207	16.4	7.1					10208	16.4	7.1				2.59	48.8	10.3	
10208	5	5					n	5	5				2.28	44.7	9.4	
n	15.92	5.00					Mean	0.73	1.39				0.924	2.552	5	
S.D.							S.D.						0.180	2.16	0.55	

Animal No.	Biochemical findings Sex : Male						Stage : Day 29 Dose : Isononane 250 mg/kg						Species : Rat		
	AST IU/L	ALT IU/L	ALP IU/L	γ-GTP IU/L	T-Bil mg/dL	TBA μmol/L	Glucose mg/dL	T-Cho mg/dL	TG mg/dL	TP g/dL	UN mg/dL				
10301	81	39	358	0.7	0.06	12.9	151	62	24	5.4	14.4				
10302	63	26	262	0.5	0.04	6.5	137	50	21	5.3	11.6				
10305	66	33	443	0.7	0.07	25.2	137	75	28	5.8	11.7				
10306	53	24	239	0.8	0.05	16.3	139	65	14	5.5	12.3				
10307	64	31	287	0.6	0.05	7.2	116	81	49	5.8	12.0				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	65.4	30.6	317.8	0.66	0.054	13.62	136.0	66.6	27.2	5.56	12.40				
S.D.	10.1	5.9	83.0	0.11	0.011	7.64	12.6	12.0	13.2	0.23	1.15				
Animal No.	Crea mg/dL						Na mEq/L	K mEq/L	Cl mg/dL	Ca mg/dL	IP A/G	A/G	Albumin g/dL	α1-G	α2-G
	0.29	143	4.38	104	9.5	6.4	0.80	2.40	44.4	24.0			9.3		
10301	0.37	143	4.49	104	9.2	6.8	0.88	2.49	46.9	24.4			8.3		
10302	0.28	144	4.59	105	9.8	6.5	0.90	2.76	47.5	18.0			10.9		
10305	0.32	143	4.57	105	9.4	6.0	0.94	2.67	48.5	21.7			10.4		
10306	0.28	143	5.06	103	10.0	6.5	0.78	2.53	43.7	26.6			9.0		
10307	0.5	5	5	5	5	5	5	5	5	5	5		5	5	
n	0.308	143.2	4.618	104.2	9.58	6.44	0.860	2.570	46.20	22.94			9.58		
Mean	0.038	0.4	0.261	0.8	0.32	0.29	0.068	0.144	2.06	3.26			1.06		
β-G γ-G															
Animal No.															
10301		18.1		4.2											
10302		15.9		4.5											
10305		17.3		6.3											
10306		15.0		4.4											
10307		18.0		2.7											
n		5		5											
Mean		16.86		4.42											
S.D.		1.36		1.28											

Animal No.	Biochemical findings Sex : Male						Stage : Day 29 Dose : Isononane 1000 mg/kg						Species : Rat		
	AST IU/L	ALT IU/L	ALP IU/L	γ-GTP IU/L	T-Bil mg/dL	TBA μmol/L	Glucose mg/dL	T-Cho mg/dL	TG mg/dL	TP g/dL	UN mg/dL				
10402	49	36	280	0.9	0.05	5.7	133	82	21	6.0	17.1				
10403	47	25	319	0.7	0.05	8.3	123	79	53	6.2	13.0				
10404	57	38	232	1.4	0.04	11.0	111	51	6	5.5	14.2				
10406	65	43	409	1.6	0.09	42.6	132	61	8	5.8	13.9				
10408	67	40	335	0.9	0.06	9.3	155	82	31	5.9	11.8				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	57.0	36.4	315.0	1.10	0.058	15.38	130.8	71.0	23.8	5.88	14.00				
S.D.	9.1	6.9	65.9	0.38	0.019	15.34	16.2	14.2	19.2	0.26	1.97				
Animal No.	Crea mg/dL						Na mEq/L	K mEq/L	Cl mg/dL	A/G	Albumin	α1-G	α2-G		
	0.36	144	4.65	104	9.7	6.1	0.93	2.89	48.2	24.4	8.9				
10402	0.29	143	4.72	102	10.0	6.0	0.84	2.83	45.7	26.0	8.0				
10403	0.28	145	4.51	103	9.5	6.7	0.84	2.51	45.6	22.1	11.1				
10404	0.23	142	5.60	102	9.7	6.8	0.77	2.52	43.4	20.7	12.3				
10406	0.25	144	4.60	101	9.7	7.0	0.86	2.72	46.1	22.9	9.1				
10408	0.25	5	5	5	5	5	5	5	5	5	5				
n	0.282	143.6	4.816	102.4	9.72	6.52	0.848	2.694	45.80	23.22	9.88				
Mean	0.050	1.1	0.445	1.1	0.18	0.44	0.057	0.174	1.71	2.05	1.76				
β-G γ-G															
Animal No.															
10402	15.3	3.2													
10403	16.8	3.5													
10404	17.9	3.3													
10406	19.9	3.7													
10408	17.2	4.7													
n	5	5													
Mean	17.42	3.68													
S.D.	1.68	0.60													

Animal No.	Biochemical findings Sex : Female						Stage : Day 14 after delivery Dose : Isononane 0 mg/kg						Species : Rat		
	AST IU/L	ALT IU/L	ALP IU/L	γ-GTP IU/L	T-Bil mg/dL	TBA μmol/L	Glucose mg/dL	T-Cho mg/dL	TG mg/dL	TP g/dL	UN mg/dL				
50152	87	54	244	0.6	0.04	11.6	152	85	81	5.9	21.3				
50153	143	68	387	0.8	0.05	7.9	140	105	44	5.7	37.2				
50156	98	68	465	1.1	0.03	24.6	113	114	101	6.2	23.2				
50161	94	65	218	0.7	0.05	20.3	147	94	140	5.7	22.6				
50162	161	86	363	0.5	0.06	39.5	128	114	69	6.0	22.7				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	116.6	68.2	335.4	0.74	0.046	20.78	136.0	102.4	87.0	5.90	25.40				
S.D.	33.2	11.5	102.9	0.23	0.011	12.40	15.7	12.7	36.1	0.21	6.63				
Animal No.	Crea mg/dL						Na mEq/L						α2-G		
	0.40	137	4.02	99	9.1	8.5	0.88	2.76	46.7	21.4	9.1				
50152	0.48	134	4.97	98	9.4	11.1	0.85	2.61	45.8	24.5	10.0				
50153	0.46	136	4.47	98	9.5	7.7	0.86	2.87	46.3	24.5	9.0				
50156	0.47	141	3.89	98	9.8	8.4	0.89	2.69	47.2	24.5	9.5				
50161	0.41	137	4.62	100	9.9	8.8	0.87	2.79	46.5	20.4	13.3				
50162	5	5	5	5	5	5	5	5	5	5	5				
n	0.444	137.0	4.394	98.6	9.54	8.90	0.870	2.744	46.50	23.06	10.18				
Mean	0.036	2.5	0.442	0.9	0.32	1.29	0.016	0.099	0.51	2.00	1.79				
Animal No.	β-G %						γ-G %						α1-G		
	50152	15.8	7.0				0.8	2.76	46.7	21.4	9.1				
50153	16.2	3.5					0.85	2.61	45.8	24.5	10.0				
50156	16.1	4.1					0.86	2.87	46.3	24.5	9.0				
50161	15.7	3.1					0.89	2.69	47.2	24.5	9.5				
50162	16.9	2.9					0.87	2.79	46.5	20.4	13.3				
n	5	5					5	5	5	5	5				
Mean	16.14	4.12					0.870	2.744	46.50	23.06	10.18				
S.D.	0.47	1.67					0.016	0.099	0.51	2.00	1.79				

Animal No.	Biochemical findings Sex : Female						Stage : Day 14 after delivery Dose : Isononane 60 mg/kg						Species : Rat		
	AST IU/L	ALT IU/L	ALP IU/L	γ-GTP IU/L	T-Bil mg/dL	TBA μmol/L	Glucose mg/dL	T-Cho mg/dL	TG mg/dL	TP g/dL	UN mg/dL				
50251	105	61	787	1.0	0.06	18.6	133	74	67	5.6	21.0				
50255	103	51	410	0.6	0.04	14.0	143	87	86	6.3	14.9				
50256	97	66	690	0.5	0.04	34.8	128	86	87	6.2	18.3				
50260	120	74	334	1.1	0.05	36.4	132	96	77	5.7	20.0				
50261	105	59	337	0.9	0.04	8.7	125	122	92	5.7	18.2				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	106.0	62.2	511.6	0.82	0.046	22.50	132.2	93.0	81.8	5.90	18.48				
S.D.	8.5	8.5	212.1	0.26	0.009	12.47	6.8	18.0	9.9	0.32	2.32				
Animal No.	Crea mg/dL						Na mEq/L						α2-G		
	0.41	0.38	0.37	0.40	0.41	0.5	139	139	98	9.8	0.93	2.70	48.2	22.1	9.6
50251	0.41	0.38	0.37	0.40	0.41	0.5	3.93	3.51	99	9.5	7.8	0.98	3.12	49.6	9.2
50255	0.38	0.39	0.40	0.41	0.41	0.5	4.14	4.14	99	9.3	6.7	0.80	2.75	44.4	11.3
50256	0.37	0.40	0.40	0.41	0.41	0.5	4.24	4.24	95	9.8	9.3	0.95	2.78	48.7	20.6
50260	0.40	0.41	0.41	0.41	0.41	0.5	3.85	3.85	99	9.5	8.3	0.94	2.76	48.4	18.9
50261	0.41	0.41	0.41	0.41	0.41	0.5	5	5	5	5	5	5	5	5	12.2
n	5	5	5	5	5	5	5.98	5.98	8.16	9.16	0.920	2.822	47.86	20.66	10.46
Mean	0.394	0.408	0.408	0.408	0.408	0.5	138.6	138.6	98.0	98.0	0.98	0.070	0.169	2.01	1.74
S.D.	0.018	0.018	0.018	0.018	0.018	1.5	0.284	1.5	1.7	0.22	0.98				1.25
Animal No.	β-G %						γ-G %						α1-G		
	50251	15.9	16.2	17.4	16.5	17.1	5	4.2	6.0	4.2	4.2	4.2	5	5	5
50255	15.9	16.2	17.4	16.5	17.1	3.4	4.2	4.2	4.2	4.2	4.2	4.2	5	5	5
50256	16.2	16.5	17.1	17.1	17.1	3.4	4.4	4.4	4.4	4.4	4.4	4.4	5	5	5
50260	16.2	16.5	17.1	17.1	17.1	3.4	4.4	4.4	4.4	4.4	4.4	4.4	5	5	5
50261	16.2	16.5	17.1	17.1	17.1	3.4	4.4	4.4	4.4	4.4	4.4	4.4	5	5	5
n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Mean	16.62	16.62	16.62	16.62	16.62	3.40	4.40	4.40	4.40	4.40	4.40	4.40	5	5	5
S.D.	0.62	0.62	0.62	0.62	0.62	0.96									

Animal No.	Biochemical findings Sex : Female						Stage : Day 14 after delivery Dose : Isononane 250 mg/kg						Species : Rat		
	AST IU/L	ALT IU/L	ALP IU/L	γ-GTP IU/L	T-Bil mg/dL	TBA μmol/L	Glucose mg/dL	T-Cho mg/dL	TG mg/dL	TP g/dL	UN mg/dL				
50352	87	54	371	1.0	0.05	27.5	142	117	159	6.3	24.8				
50353	132	68	411	0.2	0.05	86.4	129	106	212	6.6	17.5				
50357	117	58	268	1.8	0.05	9.0	135	80	41	5.8	23.4				
50361	131	71	397	0.9	0.00	13.8	116	149	218	6.6	31.0				
50362	90	60	302	0.8	0.07	10.9	117	81	121	5.9	23.1				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	111.4	62.2	349.8	0.94	0.044	29.52	127.8	106.6	150.2	6.24	23.96				
S.D.	21.8	7.1	62.0	0.57	0.026	32.61	11.3	28.6	72.9	0.38	4.82				
Animal No.	Crea mg/dL						Na mEq/L						α2-G		
	0.41	0.34	0.39	0.39	0.59	0.39	136	4.36	98	10.2	8.8	0.93	3.04	48.2	22.7
50352							139	3.79	95	10.1	8.3	0.91	3.14	47.6	24.5
50353							135	4.32	97	9.4	7.7	0.89	2.73	47.1	21.5
50357							132	6.02	96	11.0	10.9	0.94	3.19	48.4	21.5
50361							137	4.32	100	9.7	7.6	0.83	2.67	45.3	24.2
50362							5	5	5	5	5	5	5	5	5
n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Mean	0.424	0.396	135.8	4.562	97.2	10.08	8.66	0.900	2.954	47.32	22.88	9.76			
S.D.	0.096	2.6	0.848	1.9	0.61	1.34	0.044	0.239	1.24	1.43	1.09				
Animal No.	β-G %						γ-G %						α1-G		
	50352	15.0	15.9	17.3	16.3	17.3	5	4.9	3.8	3.1	3.4	3.2	3.04	48.2	22.7
50353							5	3.8	3.1	3.4	3.2	3.2	3.14	47.6	24.5
50357							5	3.1	3.1	3.1	3.1	3.1	2.73	47.1	21.5
50361							5	3.4	3.4	3.4	3.4	3.4	3.19	48.4	21.5
50362							5	3.2	3.2	3.2	3.2	3.2	2.67	45.3	24.2
n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Mean	16.36	16.36	3.68	0.98	0.98	0.73	5	5	5	5	5	5	0.239	1.24	1.43
S.D.															

Animal No.	Biochemical findings Sex : Female						Stage : Day 14 after delivery Dose : Isononane 1000 mg/kg						Species : Rat		
	AST IU/L	ALT IU/L	ALP IU/L	γ-GTP IU/L	T-Bil mg/dL	TBA μmol/L	Glucose mg/dL	T-Cho mg/dL	TG mg/dL	TP g/dL	UN mg/dL				
50453	65	33	184	0.9	0.03	20.8	120	131	55	6.1	12.2				
50454	118	77	420	1.3	0.04	55.5	117	126	128	5.6	23.8				
50457	94	66	778	1.0	0.04	21.8	125	152	84	5.9	25.0				
50460	88	67	266	0.9	0.05	28.5	109	96	67	5.9	19.5				
50462	150	78	339	1.4	0.04	28.0	123	116	70	6.0	27.0				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	103.0	64.2	397.4	1.10	0.040	30.92	118.8	124.2	80.8	5.90	21.50				
S.D.	32.3	18.3	230.0	0.23	0.007	14.18	6.3	20.5	28.3	0.19	5.88				
Animal No.	Crea mg/dL						Na mEq/L						α2-G		
	mg/dL	mEq/L	mEq/L	mEq/L	mEq/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	α1-G	Albumin	α2-G
50453	0.30	141	4.59	101	9.6	5.4	1.02	3.09	50.6	18.9	8.5				
50454	0.41	138	4.45	98	9.9	11.1	0.95	2.72	48.6	21.5	9.2				
50457	0.38	136	4.39	99	10.0	8.3	1.03	3.00	50.8	17.1	11.4				
50460	0.34	139	4.73	100	9.8	7.3	0.79	2.60	44.0	20.4	11.5				
50462	0.47	135	4.96	94	11.0	11.1	0.77	2.62	43.6	24.7	10.1				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	0.380	137.8	4.624	98.4	10.06	8.64	0.912	2.806	47.52	20.52	10.14				
S.D.	0.065	2.4	0.229	2.7	0.55	2.48	0.125	0.225	3.51	2.86	1.32				
β-G						γ-G									
Animal No.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
50453	17.1	4.9													
50454	17.3	3.4													
50457	17.8	2.9													
50460	17.0	7.1													
50462	18.6	3.0													
n	5	5													
Mean	17.56	4.26													
S.D.	0.66	1.78													

Animal No.	Biochemical findings Sex : Female (satellite)						Stage : Day 29 Dose : Isononane 0 mg/kg						Species : Rat		
	AST IU/L	ALT IU/L	ALP IU/L	γ-GTP IU/L	T-Bil mg/dL	TBA μmol/L	Glucose mg/dL	T-Cho mg/dL	TG mg/dL	TP g/dL	UN mg/dL				
50551	66	30	205	0.8	0.06	10.2	144	54	9	5.8	19.5				
50552	60	22	158	0.8	0.07	8.3	167	55	15	5.9	16.4				
50553	51	28	150	1.0	0.03	9.9	164	71	21	6.5	14.2				
50554	68	25	176	1.0	0.06	7.1	116	41	6	5.9	13.5				
50555	49	21	206	1.0	0.04	5.4	156	62	15	5.8	17.4				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	58.8	25.2	179.0	0.92	0.052	8.18	149.4	56.6	13.2	5.98	16.20				
S.D.	8.6	3.8	26.0	0.11	0.016	2.00	20.7	11.1	5.8	0.29	2.43				
Animal No.	Crea mg/dL						Na mEq/L	K mEq/L	Cl mEq/L	Ca mg/dL	IP mg/dL	A/G	Albumin g/dL	α1-G	α2-G
	0.39	143	4.07	106	9.5	4.6	1.02	2.93	%	50.6	18.6	%	7.8		
50551	0.41	140	4.23	105	9.3	3.5	1.08	3.07		52.0	18.3		7.5		
50552	0.36	140	4.17	105	9.8	3.4	1.18	3.52		54.2	20.6		7.2		
50553	0.35	142	4.05	108	9.2	3.7	1.04	3.01		51.0	20.1		7.9		
50554	0.50	140	4.27	104	9.3	4.0	1.09	3.03		52.2	17.7		8.4		
50555	5	5	5	5	5	5	5	5		52.2	17.7		8.4		
n	0.402	141.0	4.158	105.6	9.42	3.84	1.082	3.112		52.00	19.06		7.76		
Mean	0.060	1.4	0.097	1.5	0.24	0.48	0.062	0.234		1.40	1.23		0.45		
Animal No.	β-G %						γ-G %								
	50551	16.3	6.7												
50552	14.4	7.8													
50553	12.8	5.2													
50554	15.1	5.9													
50555	16.1	5.6													
n	5	5													
Mean	14.94	6.24													
S.D.	1.42	1.03													

Animal No.	Biochemical findings Sex : Female (satellite)						Stage : Day 29 Dose : Isononane 1000 mg/kg						Species : Rat		
	AST IU/L	ALT IU/L	ALP IU/L	γ-GTP IU/L	T-Bil mg/dL	TBA μmol/L	Glucose mg/dL	T-Chol mg/dL	TG mg/dL	TP g/dL	UN mg/dL				
50651	49	24	151	0.9	0.04	4.2	144	79	30	6.2	13.9				
50653	57	23	100	0.4	0.05	28.8	117	112	20	7.1	13.4				
50654	46	17	121	0.7	0.04	3.4	110	104	13	6.7	13.5				
50655	51	20	82	0.5	0.04	5.0	101	117	16	6.6	12.5				
n	4	4	4	4	4	4	4	4	4	4	4				
Mean	50.8	21.0	113.5	0.63	0.043	10.35	118.0	103.0	19.8	6.65	13.33				
S.D.	4.6	3.2	29.6	0.22	0.005	12.32	18.5	16.9	7.4	0.37	0.59				
Animal No.	Crea mg/dL	Na mEq/L	K mEq/L	Cl mEq/L	Ca nEq/L	IP mg/dL	A/G	Albumin mg/dL	Albumin g/dL	α1-G	α2-G				
	0.31	140	4.42	105	9.4	4.9	0.98	3.07	49.5	19.7	8.1				
50651	0.29	141	4.17	104	10.3	4.2	0.98	3.51	49.4	24.3	7.1				
50653	0.32	143	4.08	106	9.9	4.8	1.00	3.35	50.0	21.0	9.3				
50654	0.27	141	4.31	103	10.0	5.9	1.05	3.37	51.1	20.5	9.7				
50655	0.27	141	4.31	103	10.0	5.9	1.05	3.37	51.1	20.5	9.7				
n	4	4	4	4	4	4	4	4	4	4	4				
Mean	0.298	141.3	4.245	104.5	9.90	4.95	1.003	3.325	50.00	21.38	8.55				
S.D.	0.022	1.3	0.150	1.3	0.37	0.70	0.033	0.184	0.78	2.02	1.18				
Animal No.	β-G %	γ-G %													
	50651	15.0	7.7												
50653	14.7	4.5													
50654	14.7	5.0													
50655	15.4	3.3													
n	4	4													
Mean	14.95	5.13													
S.D.	0.33	1.86													

Animal No.	Biochemical findings						Stage : Recovery Day 15 Dose : Isononane 0 mg/kg						Species : Rat		
	Sex : Male	AST IU/L	ALT IU/L	ALP IU/L	γ-GTP IU/L	T-Bil mg/dL	TBA μmol/L	Glucose mg/dL	T-Cho mg/dL	TG mg/dL	TP g/dL	UN mg/dL			
10101		67	29	282	0.6	0.07	6.7	160	40	12	5.3	15.7			
10105		58	23	260	0.4	0.04	3.9	141	52	43	5.4	14.6			
10108		63	27	399	0.6	0.06	8.6	128	53	34	5.6	15.5			
10109		56	28	326	0.8	0.05	12.9	137	67	54	5.8	12.0			
10112		70	39	406	0.5	0.04	11.3	125	63	65	5.5	17.7			
n		5	5	5	5	5	5	5	5	5	5	5			
Mean		62.8	29.2	334.6	0.58	0.052	8.68	138.2	55.0	41.6	5.52	15.10			
S.D.		5.9	5.9	66.4	0.15	0.013	3.59	13.8	10.6	20.2	0.19	2.07			
Animal No.	Crea mg/dL						Cl mEq/L	Ca mg/dL	IP mg/dL	A/G	Albumin g/dL	α1-G %	α2-G %		
	0.35	143	4.37	105	9.0	5.9	0.88	2.48	46.8	24.1	9.1				
10101	0.34	143	4.37	105	8.9	5.9	0.81	2.42	44.8	28.2	8.1				
10105	0.30	142	4.59	104	9.3	5.8	0.80	2.49	44.5	27.2	9.1				
10108	0.28	143	4.47	105	9.6	5.7	0.70	2.40	41.3	28.8	7.9				
10109	0.31	143	4.21	105	9.5	6.4	0.84	2.51	45.6	24.7	9.6				
n		5	5	5	5	5	5	5	5	5	5	5			
Mean		0.316	142.8	4.402	104.8	9.26	5.94	0.896	2.460	44.60	26.60	8.76			
S.D.		0.029	0.4	0.140	0.4	0.30	0.27	0.067	0.047	2.05	2.10	0.73			
Animal No.	β-G %						γ-G %								
	10101	16.0	4.0												
10105	15.6	3.3													
10108	15.9	3.3													
10109	16.1	5.9													
10112	16.2	3.9													
n		5	5												
Mean		15.96	4.08												
S.D.		0.23	1.07												

Animal No.	Biochemical findings						Stage : Recovery Day 15 Dose : Isononane 1000 mg/kg						Species : Rat		
	AST IU/L	ALT IU/L	ALP IU/L	γ-GTP IU/L	T-Bil mg/dL	TBA μmol/L	Glucose mg/dL	T-Chol mg/dL	TG mg/dL	TP g/dL	UN mg/dL				
10401	71	35	296	0.9	0.06	4.8	140	63	11	5.6	15.2				
10405	65	32	249	0.8	0.06	7.6	149	99	23	5.8	17.2				
10407	56	26	233	0.8	0.04	7.3	137	81	57	5.9	13.0				
10409	87	42	328	1.3	0.04	6.8	139	63	28	5.2	15.5				
10412	67	26	240	0.8	0.06	10.3	142	57	34	5.5	14.8				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	69.2	32.2	269.2	0.92	0.052	7.36	141.4	72.6	30.6	5.60	15.14				
S.D.	11.4	6.7	41.1	0.22	0.011	1.97	4.6	17.3	17.0	0.27	1.51				
Animal No.	Biochemical findings						Stage : Recovery Day 15 Dose : Isononane 1000 mg/kg						Species : Rat		
	Crea mg/dL	Na mEq/L	K mEq/L	Cl mEq/L	Ca mg/dL	IP mg/dL	A/G mg/dL	Albumin g/dL	α1-G %	Albumin %	α2-G %				
10401	0.25	142	4.52	104	9.2	5.8	0.75	2.40	42.9	27.4	8.8				
10405	0.37	143	4.37	105	9.7	6.0	0.73	2.44	42.1	30.2	8.4				
10407	0.27	143	4.55	102	9.5	5.6	0.81	2.65	44.9	28.3	8.0				
10409	0.36	144	4.25	107	9.2	6.5	0.83	2.37	45.5	23.2	9.6				
10412	0.26	144	4.49	105	9.2	6.3	0.74	2.34	42.5	23.2	10.2				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	0.302	143.2	4.436	104.6	9.36	6.04	0.772	2.440	43.58	26.46	9.00				
S.D.	0.058	0.8	0.124	1.8	0.23	0.36	0.045	0.123	1.52	3.14	0.89				
Animal No.	Biochemical findings						Stage : Recovery Day 15 Dose : Isononane 1000 mg/kg						Species : Rat		
	β-G %	γ-G %													
10401	16.0	4.9													
10405	16.4	2.9													
10407	15.4	3.4													
10409	15.9	5.8													
10412	17.1	7.0													
n	5	5													
Mean	16.16	4.80													
S.D.	0.63	1.69													

Animal No.	Biochemical findings Sex : Female (satellite)						Stage : Recovery Day 15 Dose : Isononane 0 mg/kg						Species : Rat		
	AST IU/L	ALT IU/L	ALP IU/L	γ-GTP IU/L	T-Bil mg/dL	TBA μmol/L	Glucose mg/dL	T-Cho mg/dL	TG mg/dL	TP g/dL	UN mg/dL				
50556	63	22	131	0.7	0.07	20.4	133	73	12	6.0	17.4				
50557	67	31	210	1.1	0.05	6.8	139	75	15	5.9	14.2				
50558	114	53	167	0.8	0.08	11.6	136	83	12	6.5	13.2				
50559	62	33	176	0.9	0.09	7.1	133	69	12	6.8	13.4				
50560	92	47	132	1.2	0.08	13.1	127	72	12	6.0	15.3				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	79.6	37.2	163.2	0.94	0.074	11.80	133.6	74.4	12.6	6.24	14.70				
S.D.	22.8	12.6	33.1	0.21	0.015	5.54	4.4	5.3	1.3	0.39	1.72				
Animal No.	Crea mg/dL						Cre mEq/L						α2-G		
	Na mEq/L	K mEq/L	Cl mEq/L	Cl mEq/L	T-Bil mg/dL	TBA mg/dL	Ca mg/dL	IP mg/dL	A/G mg/dL	Albumin g/dL	Albumin %	α1-G %	α2-G %	α1-G %	α2-G %
50556	0.38	142	4.42	107	9.3	5.2	1.07	3.11	51.8	17.0	8.5				
50557	0.35	140	4.30	106	9.2	5.5	0.96	2.89	48.9	18.2	9.7				
50558	0.31	140	4.24	105	9.3	4.8	1.08	3.37	51.9	19.7	7.5				
50559	0.34	142	4.39	106	10.1	5.4	1.11	3.58	52.7	17.3	7.9				
50560	0.30	141	4.38	107	9.7	5.6	1.07	3.10	51.7	19.7	8.0				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	0.336	141.0	4.346	106.2	9.52	5.30	1.058	3.210	51.40	18.38	8.32				
S.D.	0.032	1.0	0.074	0.8	0.38	0.32	0.057	0.268	1.45	1.28	0.85				
Animal No.	β-G %						γ-G %								
	50556	14.8	7.9				50557	16.4	6.8						
	50557	14.9	6.0				50558	14.9	7.3						
	50558	14.7	5.9				50559	14.8	7.3						
	50559	14.7	5.9				50560	14.7	5.9						
n	5	5	5	5	5	5									
Mean	15.12	6.78													
S.D.	0.72	0.85													

Animal No.	Biochemical findings Sex : Female (satellite)						Stage : Recovery Day 15 Dose : Isononane 1000 mg/kg						Species : Rat		
	AST IU/L	ALT IU/L	ALP IU/L	γ-GTP IU/L	T-Bil mg/dL	TBA μmol/L	Glucose mg/dL	T-Cho mg/dL	TG mg/dL	TP g/dL	UN mg/dL				
50656	47	20	91	0.3	0.08	9.0	113	120	18	6.4	14.4				
50657	69	31	139	0.6	0.06	7.4	123	87	10	6.1	17.8				
50658	60	22	90	0.5	0.06	8.1	119	81	10	6.5	16.3				
50659	59	29	101	0.6	0.11	35.1	122	121	13	6.3	17.4				
50660	56	22	141	0.5	0.13	39.6	135	71	12	6.8	16.5				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	58.2	24.8	112.4	0.50	0.088	19.84	122.4	96.0	12.6	6.42	16.48				
S.D.	7.9	4.9	25.6	0.12	0.031	16.07	8.0	23.1	3.3	0.26	1.32				
Animal No.	Crea mg/dL						A/G mEq/L						α2-G		
	0.30	141	4.70	105	9.9	5.0	0.97	3.16	49.3	23.5	8.4				
50656	0.40	142	4.26	107	9.4	5.0	1.02	3.09	50.6	19.6	8.9				
50657	0.40	142	4.55	104	9.9	6.3	0.92	3.11	47.9	21.0	8.3				
50658	0.33	142	4.55	104	10.0	5.3	0.95	3.07	48.7	22.6	8.2				
50659	0.30	141	4.57	104	9.9	6.0	1.03	3.45	50.8	25.0	6.4				
50660	0.29	141	4.41	104	9.9	5	5	5	5	5	5				
n	5	5	5	5	5	5	5	5	5	5	5				
Mean	0.324	141.4	4.498	104.8	9.82	5.52	0.978	3.176	49.46	22.34	8.04				
S.D.	0.045	0.5	0.168	1.3	0.24	0.60	0.047	0.157	1.24	2.11	0.96				
Animal No.	β-G %						γ-G %						α1-G		
	50656	14.7	4.1				50657	15.3	5.6						
50657							50658	15.9	6.9						
50658							50659	14.2	6.3						
50659							50660	12.4	5.4						
n	5	5	5	5	5	5	Mean	14.50	5.66						
							S.D.	1.34	1.05						

Serum T4 concentration		Stage : Day 29	
Sex : Male		Dose : Isononane 0 mg/kg	
T4			
Animal No.	ng/mL		
10102	39.8		
10103	57.4		
10104	52.9		
10106	45.7		
10107	55.9		
10110	53.1		
10111	60.2		
n	7		
Mean	52.14		
S.D.	7.09		

Serum T4 concentration		Stage : Day 29	
		Dose : Isononane 60 mg/kg	
		Species : Rat	
T4			
Animal No.	ng/mL	Sex : Male	
10201	46.5		
10202	34.8		
10203	63.5		
10204	61.2		
10205	58.4		
10206	49.7		
10207	55.4		
10208	40.7		
10209	49.3		
10210	56.2		
10211	55.3		
10212	55.1		
n	12		
Mean	52.18		
S.D.	8.39		

Serum T4 concentration
Sex : Male
T4

Animal No.	ng/mL
10301	49.7
10302	48.3
10303	50.0
10304	50.7
10305	51.8
10306	34.8
10307	56.1
10308	55.2
10309	48.1
10310	49.0
10311	53.2
10312	48.2
n	12
Mean	49.59
S.D.	5.38

Stage : Day 29
Dose : Isononane 250 mg/kg
T4

		Serum T4 concentration	Stage : Day 29	Dose : Isononane 1000 mg/kg	Species : Rat
		Sex : Male	T4		
Animal No.		ng/mL			
10402		51.1			
10403		48.6			
10404		39.1			
10406		39.6			
10408		48.4			
10410		43.1			
10411		54.9			
<i>n</i>		7			
Mean		46.40			
S.D.		5.97			

Necropsy findings			Species : Rat
	Sex : Male	Stage : Day 29	
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 10102	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 10103	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 10104	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 10106	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 10107	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 10110	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 10111	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		

Necropsy findings		Species : Rat
Sex : Male	Stage : Day 29	
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 10201
Finding absent:	Kidney, Testis, Epididymis, Other organs & tissues	
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 10202
Finding absent:	Kidney, Testis, Epididymis, Other organs & tissues	
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 10203
Finding absent:	Kidney, Testis, Epididymis, Other organs & tissues	
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 10204
Finding absent:	Kidney, Testis, Epididymis, Other organs & tissues	
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 10205
Finding absent:	Kidney, Testis, Epididymis, Other organs & tissues	
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 10206
Finding absent:	Kidney, Testis, Epididymis, Other organs & tissues	
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 10207
Finding absent:	Kidney, Testis, Epididymis, Other organs & tissues	
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 10208
Finding absent:	Kidney, Testis, Epididymis, Other organs & tissues	
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 10209
Finding absent:	Kidney, Testis, Epididymis, Other organs & tissues	
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 10210
Finding absent:	Kidney, Testis, Epididymis, Other organs & tissues	
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 10211
Finding absent:	Kidney, Testis, Epididymis, Other organs & tissues	
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 10212
Finding absent:	Kidney, Testis, Epididymis, Other organs & tissues	

Necropsy findings			
Sex :	Male	Stage :	Day 29
Test article : Isononane	Dose : 250 mg/kg	Animal No. : 10301	Species : Rat
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 250 mg/kg	Animal No. : 10302	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 250 mg/kg	Animal No. : 10303	
Kidney			
Finding present			
Large size, bilateral			
Non-graded change			
Finding absent :	Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 250 mg/kg	Animal No. : 10304	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 250 mg/kg	Animal No. : 10305	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 250 mg/kg	Animal No. : 10306	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 250 mg/kg	Animal No. : 10307	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 250 mg/kg	Animal No. : 10308	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 250 mg/kg	Animal No. : 10309	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 250 mg/kg	Animal No. : 10310	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 250 mg/kg	Animal No. : 10311	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 250 mg/kg	Animal No. : 10312	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		

Necropsy findings			Species : Rat
	Sex : Male	Stage : Day 29	
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 10402	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 10403	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 10404	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 10406	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 10408	
Finding absent :	Kidney, Testis, Epididymis, Other organs & tissues		
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 10410	
Testis			
Finding present			
Small size, unilateral			
Non-graded change			
Finding Comment : unilateral : right			
Epididymis			
Finding present			
Small size, unilateral			
Non-graded change			
Finding Comment : unilateral : right			
Finding absent :	Kidney, Other organs & tissues		
Kidney			
Finding present			
Large size, bilateral			
Non-graded change			
Finding absent :	Testis, Epididymis, Other organs & tissues		

	Necropsy findings		Stage : Day 14 after delivery	Species : Rat
	Sex : Female	Dose : 0 mg/kg	Animal No. : 50151	
Test article : Isononane				
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50152		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50153		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50154	Unsuccessful mating	
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50155		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50156		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50157		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50158	Euthanized on gestation Day 23	
Finding absent :	Spleen, Thymus, Other organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50159		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50160		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50161		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50162		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				

	Necropsy findings	Sex : Female	Stage : Day 14 after delivery	Species : Rat
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 50251		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 50252		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 50253		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 50254		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 50255		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 50256		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 50257		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 50258		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 50259		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 50260		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 50261		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 60 mg/kg	Animal No. : 50262		
Finding absent :	All organs & tissues			
Estrous cycle : Diestrus				

	Necropsy findings		
	Sex : Female	Sex : Male	
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50351	Stage : Day 14 after delivery
Finding absent :	All organs & tissues		Species : Rat
Estrous cycle : Diestrus			
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50352	
Finding absent :	All organs & tissues		
Estrous cycle : Diestrus			
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50353	
Finding absent :	All organs & tissues		
Estrous cycle : Diestrus			
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50354	Euthanized on lactation Day 0
Thymus			
Finding absent :	Spine, Other organs & tissues		
Estrous cycle : Diestrus			
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50355	Unsuccessful mating
Finding absent :	All organs & tissues		
Estrous cycle : Diestrus			
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50356	
Finding absent :	All organs & tissues		
Estrous cycle : Diestrus			
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50357	
Finding absent :	All organs & tissues		
Estrous cycle : Diestrus			
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50358	
Finding absent :	All organs & tissues		
Estrous cycle : Diestrus			
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50359	
Finding absent :	All organs & tissues		
Estrous cycle : Diestrus			
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50360	Non-pregnancy
Finding absent :	All organs & tissues		
Estrous cycle : Proestrus			
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50361	
Finding absent :	All organs & tissues		
Estrous cycle : Diestrus			
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50362	
Finding absent :	All organs & tissues		
Estrous cycle : Diestrus			

	Necropsy findings	Sex : Female	Dose : 1000 mg/kg	Animal No. : 50451	Stage : Day 14 after delivery	Species : Rat
Test article : Isononane	Finding absent:	All organs & tissues				
	Estrous cycle :	Diestrus				
Test article : Isononane	Finding absent:	All organs & tissues	Dose : 1000 mg/kg	Animal No. : 50452		
	Estrous cycle :	Diestrus				
Test article : Isononane	Finding absent:	All organs & tissues	Dose : 1000 mg/kg	Animal No. : 50453		
	Estrous cycle :	Diestrus				
Test article : Isononane	Finding absent:	All organs & tissues	Dose : 1000 mg/kg	Animal No. : 50454		
	Estrous cycle :	Diestrus				
Test article : Isononane	Finding absent:	All organs & tissues	Dose : 1000 mg/kg	Animal No. : 50455		
	Estrous cycle :	Diestrus				
Test article : Isononane	Finding absent:	All organs & tissues	Dose : 1000 mg/kg	Animal No. : 50456		
	Estrous cycle :	Diestrus				
Test article : Isononane	Finding absent:	All organs & tissues	Dose : 1000 mg/kg	Animal No. : 50457		
	Estrous cycle :	Diestrus				
Test article : Isononane	Finding absent:	All organs & tissues	Dose : 1000 mg/kg	Animal No. : 50458		
	Estrous cycle :	Diestrus				
Test article : Isononane	Finding absent:	All organs & tissues	Dose : 1000 mg/kg	Animal No. : 50459		
	Estrous cycle :	Diestrus				
Test article : Isononane	Finding absent:	All organs & tissues	Dose : 1000 mg/kg	Animal No. : 50460		
	Estrous cycle :	Diestrus				

Necropsy findings					
Test article : Isononane	Sex : Female	Dose : 1000 mg/kg	Animal No. : 50461	Euthanized on lactation Day 3	Species : Rat
Spleen					
Findings	Finding present				
	Small size				
	Non-graded change				
Thymus					
Findings	Finding present				
	Small size				
	Non-graded change				
	Finding absent :	Other organs & tissues			
	Estrous cycle : Diestrus				
Test article : Isononane					
	Dose : 1000 mg/kg				
	Finding absent :	All organs & tissues			
	Estrous cycle : Diestrus				

Necropsy findings			Stage : Day 29	Species : Rat
Sex : Female (satellite)	Dose : 0 mg/kg	Animal No. : 50551		
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50551		
Finding absent:	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50552		
Finding absent:	All organs & tissues			
Estrous cycle : Estrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50553		
Finding absent:	All organs & tissues			
Estrous cycle : Metestrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50554		
Finding absent:	All organs & tissues			
Estrous cycle : Diestrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50555		
Finding absent:	All organs & tissues			
Estrous cycle : Estrus				

Necropsy findings				Species : Rat
Test article : Isononane	Sex : Female (satellite)	Dose : 1000 mg/kg	Animal No. : 50651	
Finding absent :	All organs & tissues			
Estrous cycle :	Proestrus			
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50652	Euthanized on Day 7	
Spleen	Findings : Finding present			
	Small size			
	Non-graded change			
Thymus	Findings : Finding present			
	Small size			
	Non-graded change			
Finding absent :	Other organs & tissues			
Estrous cycle :	Metestrus			
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50653		
Finding absent :	All organs & tissues			
Estrous cycle :	Diestrus			
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50654		
Finding absent :	All organs & tissues			
Estrous cycle :	Proestrus			
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50655		
Finding absent :	All organs & tissues			
Estrous cycle :	Metestrus			

Necropsy findings			Species : Rat
Test article : Isononane	Sex : Male	Dose : 0 mg/kg	
Finding absent:	All organs & tissues		
Test article : Isononane		Animal No.: 10101	
Finding absent:			
Test article : Isononane		Animal No.: 10105	
Finding absent:	All organs & tissues		
Test article : Isononane		Animal No.: 10108	
Finding absent:	All organs & tissues		
Test article : Isononane		Animal No.: 10109	
Finding absent:	All organs & tissues		
Test article : Isononane		Animal No.: 10112	
Finding absent:	All organs & tissues		

Necropsy findings		Species : Rat
Test article : Isononane	Sex : Male Dose : 1000 mg/kg Animal No. : 10401	
Finding absent :	All organs & tissues	
Test article : Isononane	Dose : 1000 mg/kg Animal No. : 10405	
Finding absent :	All organs & tissues	
Test article : Isononane	Dose : 1000 mg/kg Animal No. : 10407	
Finding absent :	All organs & tissues	
Test article : Isononane	Dose : 1000 mg/kg Animal No. : 10409	
Finding absent :	All organs & tissues	
Test article : Isononane	Dose : 1000 mg/kg Animal No. : 10412	
Finding absent :	All organs & tissues	

Necropsy findings			Stage : Recovery Day 15	Species : Rat
Sex : Female (satellite)	Dose : 0 mg/kg	Animal No. : 50556		
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50556		
Finding absent:	All organs & tissues			
Estrous cycle : Proestrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50557		
Finding absent:	All organs & tissues			
Estrous cycle : Estrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50558		
Finding absent:	All organs & tissues			
Estrous cycle : Estrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50559		
Finding absent:	All organs & tissues			
Estrous cycle : Metestrus				
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50560		
Finding absent:	All organs & tissues			
Estrous cycle : Metestrus				

Necropsy findings			Stage : Recovery Day 15	Species : Rat
Sex : Female (satellite)	Dose : 1000 mg/kg	Animal No. : 50656		
Test article : Isononane				
Finding absent :	All organs & tissues			
Estrous cycle :	Metestrus			
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50657		
Finding absent :	All organs & tissues			
Estrous cycle :	Metestrus			
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50658		
Finding absent :	All organs & tissues			
Estrous cycle :	Metestrus			
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50659		
Finding absent :	All organs & tissues			
Estrous cycle :	Metestrus			
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50660		
Finding absent :	All organs & tissues			
Estrous cycle :	Metestrus			

Animal No.	Organ weight						Stage : Day 29						Species : Rat						
	Sex : Male			Liver			Kidney			Heart			Spleen						
	Body weight	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g		
10102	442	9.79	2.21	2.85	0.64	1.27	0.29	0.29	0.29	0.68	151.13								
10103	552	14.22	2.58	2.96	0.54	1.58	0.29	0.29	0.29	575	104.17								
10104	547	15.19	2.78	3.49	0.64	1.54	0.28	0.28	0.28	807	147.53								
10106	476	10.43	2.19	2.97	0.62	1.25	0.26	0.26	0.26	804	168.91								
10107	515	15.28	2.97	3.43	0.67	1.57	0.30	0.30	0.30	671	130.29								
10110	484	13.12	2.71	3.06	0.63	1.44	0.30	0.30	0.30	780	161.16								
10111	522	15.42	2.95	3.19	0.61	1.44	0.28	0.28	0.28	799	153.07								
n	7	7	7	7	7	7	7	7	7	7	7								
Mean	505.4	13.350	2.627	3.136	0.621	1.441	0.286	0.286	0.286	729.1	145.180								
S.D.	40.0	2.360	0.321	0.245	0.041	0.136	0.014	0.014	0.014	91.3	21.699								
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Stage : Isononane 0 mg/kg																			
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<hr/>																			
Thymus						Adrenal						Pituitary gland						Testis	
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Animal No.	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	
10102	451	102.04	67	15.16	13.1	2.96	22.7	5.14	3.44	3.44	0.78								
10103	338	62.23	58	10.51	13.7	2.48	25.8	4.67	3.56	3.56	0.64								
10104	188	34.37	66	12.07	13.4	2.45	24.6	4.50	3.42	3.42	0.63								
10106	322	67.65	56	11.76	11.4	2.39	24.7	5.19	3.58	3.58	0.75								
10107	481	93.40	71	13.79	12.4	2.41	35.3	6.85	3.71	3.71	0.72								
10110	426	88.02	76	15.70	12.3	2.54	24.0	4.96	3.21	3.21	0.66								
10111	419	80.27	60	11.49	10.8	2.07	21.0	4.02	3.46	3.46	0.66								
n	7	7	7	7	7	7	7	7	7	7	7								
Mean	375.0	75.283	64.9	12.926	12.44	2.471	25.44	5.047	3.483	3.483	0.691								
S.D.	100.6	22.952	7.3	1.976	1.06	0.263	4.62	0.893	0.157	0.893	0.058								
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Epididymis						Prostate						Seminal vesicle						Brain	
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Animal No.	AB g	RE g/100g	AB mg	RE mg/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	
10102	1.45	0.33	657	148.64	2.68	0.61	2.32	0.52											
10103	1.46	0.26	711	128.80	2.51	0.45	2.22	0.40											
10104	1.30	0.24	719	131.44	2.28	0.42	2.22	0.41											
10106	1.49	0.31	785	164.92	2.84	0.60	2.29	0.48											
10107	1.26	0.24	837	162.52	2.10	0.41	2.29	0.44											
10110	1.18	0.24	535	110.54	2.40	0.50	2.12	0.44											
10111	1.26	0.24	730	139.85	1.55	0.30	2.25	0.43											
n	7	7	7	7	7	7	7	7	7	7	7								
Mean	1.343	0.266	710.6	140.959	2.337	0.470	2.244	0.446											
S.D.	0.122	0.038	96.3	19.421	0.425	0.110	0.067	0.042											

Animal No.	Sex : Male						Species : Rat					
	Organ weight			Dose : Isononane 60 mg/kg			Species : Rat					
	Body weight	AB	RE	AB	RE	AB	RE	AB	RE	AB	RE	AB
Stage : Day 29												
10201	510	12.87	9/100g	3.35	0.66	1.46	0.29	741	145.29			
10202	459	11.73	2.56	3.43	0.75	1.38	0.30	671	146.19			
10203	502	13.89	2.77	3.75	0.75	1.40	0.28	822	163.75			
10204	500	13.21	2.64	3.55	0.71	1.37	0.27	794	158.80			
10205	521	13.54	2.60	3.32	0.64	1.47	0.28	786	150.86			
10206	490	14.09	2.88	3.52	0.72	1.45	0.30	995	203.06			
10207	473	13.71	2.90	3.61	0.76	1.38	0.29	837	176.96			
10208	471	12.78	2.71	3.88	0.82	1.53	0.32	729	154.78			
10209	532	15.33	2.88	3.99	0.75	1.62	0.30	1271	238.91			
10210	501	13.50	2.69	3.32	0.66	1.37	0.27	675	134.73			
10211	480	12.57	2.62	4.13	0.86	1.26	0.26	664	138.33			
10212	537	14.23	2.65	3.51	0.65	1.38	0.26	839	156.24			
n	12	12	12	12	12	12	12	12	12	12	12	12
Mean	498.0	13.454	2.702	3.613	0.728	1.423	0.285	818.7	163.992			
S.D.	24.6	0.924	0.129	0.269	0.069	0.092	0.018	170.2	29.898			
Stage : Day 60												
Kidney												
Animal No.	AB	RE	AB	RE	AB	RE	AB	RE	AB	RE	AB	RE
10201	312	67.18	54	10.59	13.5	2.65	29.8	5.84	3.34	0.65		
10202	339	73.86	64	13.94	10.6	2.31	26.5	5.77	3.67	0.80		
10203	391	77.89	74	14.74	13.4	2.67	23.6	4.70	3.21	0.64		
10204	294	58.80	70	14.00	10.7	2.14	30.5	6.10	3.55	0.71		
10205	349	66.99	55	10.56	12.7	2.44	27.8	5.34	3.21	0.62		
10206	272	55.51	111	22.65	13.8	2.82	24.6	5.02	3.85	0.79		
10207	362	76.53	60	12.68	12.4	2.62	31.3	6.62	3.42	0.72		
10208	303	64.33	70	14.86	10.0	2.12	32.4	6.88	3.33	0.71		
10209	405	76.13	79	14.85	21.4	4.02	29.6	5.56	3.59	0.67		
10210	329	65.67	79	15.77	10.8	2.16	21.2	4.23	3.46	0.69		
10211	375	78.13	60	12.50	11.4	2.38	33.6	7.00	3.70	0.77		
10212	373	69.46	73	13.59	13.4	2.50	24.1	4.49	4.00	0.74		
n	12	12	12	12	12	12	12	12	12	12	12	12
Mean	342.0	68.707	70.8	14.228	12.84	2.569	27.92	5.629	3.528	0.709		
S.D.	41.2	7.844	15.3	3.118	3.01	0.510	3.91	0.919	0.247	0.059		

AB : Absolute weight, RE : Relative weight by body weight

Animal No.	Organ weight						Stage : Day 29						Species : Rat					
	Sex : Male			Epididymis			Prostate			Dose : Isononane 60 mg/kg			Seminal vesicle			Brain		
	AB g	RE g/100g	AB mg	AB mg/100g	RE mg	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g
10201	1.31	0.26	833	163.33	2.36	0.46	2.20	0.43										
10202	1.43	0.31	601	130.94	2.17	0.47	2.21	0.48										
10203	1.25	0.25	1008	200.80	2.47	0.49	2.03	0.40										
10204	1.37	0.27	702	140.40	2.23	0.45	2.17	0.43										
10205	1.21	0.23	858	164.68	2.37	0.45	2.11	0.40										
10206	1.46	0.30	650	132.65	2.67	0.54	2.25	0.46										
10207	1.26	0.27	1106	233.83	2.39	0.51	2.16	0.46										
10208	1.32	0.28	548	116.35	2.75	0.58	2.00	0.42										
10209	1.48	0.28	860	161.65	2.40	0.45	2.35	0.44										
10210	1.31	0.26	805	160.68	2.18	0.44	2.12	0.42										
10211	1.46	0.30	938	195.42	2.52	0.53	2.26	0.47										
10212	1.47	0.27	624	116.20	2.34	0.44	2.37	0.44										
n	12	12	12	12	12	12	12	12										
Mean	1.361	0.273	794.4	159.744	2.404	0.484	2.186	0.438										
S.D.	0.097	0.023	173.2	35.937	0.179	0.046	0.113	0.026										

AB : Absolute weight, RE : Relative weight by body weight

Animal No.	Organ weight						Stage : Day 29						Species : Rat					
	Sex : Male			Female			Dose : Isononane 250 mg/kg			Heart			Spleen			Testis		
	Body weight	AB g	RE g/100g	Liver	AB g	RE g/100g	Kidney	AB g	RE g/100g	Heart	AB mg	RE mg/100g	Spleen	AB mg	RE mg/100g	Testis		
10301	477	14.41	3.02	3.58	0.75	1.45	0.30	0.30	0.30	839	175.89							
10302	524	13.82	2.64	3.14	0.60	1.40	0.27	0.27	0.27	805	153.63							
10303	502	14.22	2.83	5.54	1.10	1.52	0.30	0.30	0.30	882	175.70							
10304	481	14.24	2.96	3.95	0.82	1.23	0.26	0.26	0.26	794	165.07							
10305	496	15.03	3.03	3.78	0.76	1.47	0.30	0.30	0.30	787	158.67							
10306	470	12.29	2.61	2.88	0.61	1.26	0.27	0.27	0.27	662	140.85							
10307	536	17.61	3.29	3.99	0.74	1.49	0.28	0.28	0.28	776	144.78							
10308	528	15.40	2.92	3.33	0.63	1.50	0.28	0.28	0.28	837	158.52							
10309	496	16.54	3.33	3.54	0.71	1.44	0.29	0.29	0.29	905	182.46							
10310	479	14.32	2.99	4.30	0.90	1.53	0.32	0.32	0.32	744	155.32							
10311	484	15.67	3.24	3.91	0.81	1.40	0.29	0.29	0.29	776	160.33							
10312	433	14.28	3.30	3.99	0.92	1.53	0.35	0.35	0.35	802	185.22							
n		12	12	12	12	12	12	12	12	12	12							
Mean	492.2	14.819	3.013	3.828	0.779	1.435	0.293	0.293	0.293	800.8	163.037							
S.D.	28.5	1.370	0.245	0.674	0.145	0.100	0.025	0.025	0.025	63.4	14.205							
Thymus																		
Animal No.	AB mg			RE mg/100g			AB mg			RE mg/100g			AB mg			RE mg/100g		
	AB mg			RE mg/100g			AB mg			RE mg/100g			AB mg			RE mg/100g		
	302	63.31	80	16.77	11.8	2.47	26.7	5.60	5.60	3.68	0.77							
10301	350	66.79	60	11.45	16.8	3.21	27.4	5.23	5.23	3.05	0.58							
10302	345	68.73	66	13.15	10.1	2.01	34.6	6.89	6.89	3.44	0.69							
10303	496	103.12	61	12.68	16.6	3.45	33.4	6.94	6.94	4.23	0.88							
10304	510	102.82	57	11.49	13.9	2.80	28.6	5.77	5.77	3.88	0.78							
10305	224	47.66	58	12.34	11.8	2.51	21.4	4.55	4.55	3.58	0.76							
10306	317	59.14	57	10.63	12.2	2.28	26.4	4.93	4.93	3.28	0.61							
10307	452	85.61	76	14.39	12.5	2.37	20.0	3.79	3.79	3.47	0.66							
10308	404	81.45	84	16.94	12.6	2.54	25.6	5.16	5.16	3.46	0.70							
10309	224	46.76	53	11.06	14.7	3.07	27.5	5.74	5.74	3.47	0.72							
10310	438	90.50	61	12.60	11.8	2.44	33.7	6.96	6.96	3.31	0.68							
10311	257	59.35	56	12.93	12.6	2.91	21.0	4.85	4.85	3.77	0.87							
n		12	12	12	12	12	12	12	12	12	12							
Mean	359.9	72.937	64.1	13.036	13.12	2.672	27.19	5.534	5.534	3.552	0.725							
S.D.	100.3	19.523	10.3	2.055	2.02	0.421	4.91	1.001	1.001	0.309	0.092							

AB : Absolute weight, RE : Relative weight by body weight

Animal No.	Organ weight						Stage : Day 29					
	Sex : Male			Epididymis			Dose : Isononane 250 mg/kg			Brain		
	AB g	RE g/100g	AB mg	AB mg/100g	RE mg	AB g	RE g/100g	AB g/100g	RE g/100g	AB g	RE g/100g	Species : Rat
10301	1.42	0.30	740	155.14	1.52	0.32	2.26	0.47	0.47			
10302	1.15	0.22	777	148.28	2.16	0.41	2.14	0.41	0.41			
10303	1.24	0.25	665	132.47	2.05	0.41	2.24	0.45	0.45			
10304	1.59	0.33	641	133.26	2.35	0.49	2.43	0.51	0.51			
10305	1.39	0.28	710	143.15	3.36	0.68	2.50	0.50	0.50			
10306	1.47	0.31	641	136.38	2.54	0.54	2.16	0.46	0.46			
10307	1.27	0.24	791	147.57	1.97	0.37	2.22	0.41	0.41			
10308	1.56	0.30	514	97.35	1.91	0.36	2.19	0.41	0.41			
10309	1.47	0.30	357	71.98	2.56	0.52	2.28	0.46	0.46			
10310	1.36	0.28	923	192.69	2.62	0.55	2.31	0.48	0.48			
10311	1.35	0.28	832	171.90	2.05	0.42	2.38	0.49	0.49			
10312	1.38	0.32	780	180.14	2.59	0.60	2.23	0.52	0.52			
n	12	12	12	12	12	12	12	12	12			
Mean	1.388	0.284	697.6	142.526	2.307	0.473	2.278	0.464	0.464			
S.D.	0.128	0.033	150.7	33.377	0.472	0.108	0.110	0.039	0.039			

AB : Absolute weight, RE : Relative weight by body weight

Organ weight										Species : Rat										
Sex : Male					Dose : Isononane 1000 mg/kg					Species : Rat										
Body weight		Liver		Kidney		Heart		Spleen		Testis										
Animal No.	g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	
10402	440	17.49	3.98	3.75	0.85	1.33	0.30	803	182.50	803	182.50	803	182.50	803	182.50	803	182.50	803	182.50	
10403	508	20.03	3.94	3.99	0.79	1.46	0.29	762	150.00	762	150.00	762	150.00	762	150.00	762	150.00	762	150.00	
10404	520	17.14	3.30	4.80	0.92	1.59	0.31	943	181.35	943	181.35	943	181.35	943	181.35	943	181.35	943	181.35	
10406	414	17.16	4.14	3.50	0.85	1.18	0.29	1163	280.92	1163	280.92	1163	280.92	1163	280.92	1163	280.92	1163	280.92	
10408	491	18.05	3.68	4.01	0.82	1.28	0.26	713	145.21	713	145.21	713	145.21	713	145.21	713	145.21	713	145.21	
10410	502	18.73	3.73	4.10	0.82	1.39	0.28	822	163.75	822	163.75	822	163.75	822	163.75	822	163.75	822	163.75	
10411	433	13.94	3.22	5.56	1.28	1.39	0.32	845	195.15	845	195.15	845	195.15	845	195.15	845	195.15	845	195.15	
n	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Mean	472.6	17.506	3.713	4.244	0.904	1.374	0.293	864.4	185.54	864.4	185.54	864.4	185.54	864.4	185.54	864.4	185.54	864.4	185.54	
S.D.	42.4	1.877	0.346	0.705	0.171	0.131	0.020	149.8	45.791	149.8	45.791	149.8	45.791	149.8	45.791	149.8	45.791	149.8	45.791	
Stage : Day 29										Species : Rat										
Thymus					Adrenal					Pituitary gland					Thyroid					
Animal No.	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g		
10402	439	99.77	50	11.36	11.9	2.70	23.5	5.34	3.68	3.68	5.10	3.21	3.21	3.21	3.21	3.21	3.21	3.21	3.21	
10403	398	78.35	63	12.40	16.9	3.33	25.9	5.56	3.66	3.66	5.56	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	
10404	278	53.46	78	15.00	13.8	2.65	28.9	4.81	3.28	3.28	4.81	3.28	3.28	3.28	3.28	3.28	3.28	3.28	3.28	
10406	302	72.95	85	20.53	11.1	2.68	19.9	5.11	3.19	3.19	5.11	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	
10408	231	47.05	66	13.44	12.5	2.55	25.1	3.71	3.16	3.16	3.71	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	
10410	320	63.75	90	17.93	13.7	2.73	18.6	3.90	3.42	3.42	3.90	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	
10411	388	89.61	71	16.40	12.9	2.98	34.2	7.90	3.65	3.65	7.90	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	
n	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Mean	336.6	72.134	71.9	15.294	13.26	2.803	25.16	5.361	3.404	3.404	5.361	3.404	3.404	3.404	3.404	3.404	3.404	3.404	3.404	
S.D.	74.1	18.959	13.7	3.239	1.87	0.267	5.32	1.268	0.245	0.245	1.268	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	
Epididymis										Species : Rat										
Animal No.	AB g	RE g/100g	AB mg	RE mg/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g		
10402	1.27	0.29	327	74.32	2.24	0.51	2.02	0.46	2.16	0.43	2.16	0.43	2.16	0.43	2.16	0.43	2.16	0.43	2.16	0.43
10403	1.28	0.25	869	171.06	2.48	0.49	2.16	0.46	2.16	0.46	2.16	0.46	2.16	0.46	2.16	0.46	2.16	0.46	2.16	0.46
10404	1.37	0.26	853	164.04	2.97	0.57	2.16	0.42	2.16	0.42	2.16	0.42	2.16	0.42	2.16	0.42	2.16	0.42	2.16	0.42
10406	1.24	0.30	638	154.11	2.34	0.57	2.20	0.53	2.20	0.53	2.20	0.53	2.20	0.53	2.20	0.53	2.20	0.53	2.20	0.53
10408	1.22	0.25	778	158.45	2.65	0.54	2.22	0.45	2.22	0.45	2.22	0.45	2.22	0.45	2.22	0.45	2.22	0.45	2.22	0.45
10410	1.16	0.23	883	175.90	2.26	0.46	2.32	0.46	2.32	0.46	2.32	0.46	2.32	0.46	2.32	0.46	2.32	0.46	2.32	0.46
10411	1.57	0.36	674	155.66	2.23	0.52	2.11	0.49	2.11	0.49	2.11	0.49	2.11	0.49	2.11	0.49	2.11	0.49	2.11	0.49
n	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
Mean	1.301	0.277	717.4	150.56	2.453	0.521	2.170	0.463	2.170	0.463	2.170	0.463	2.170	0.463	2.170	0.463	2.170	0.463	2.170	0.463
S.D.	0.135	0.044	197.1	34.539	0.274	0.043	0.093	0.096	0.093	0.096	0.093	0.096	0.093	0.096	0.093	0.096	0.093	0.096	0.093	0.096

AB : Absolute weight, RE : Relative weight by body weight

Animal No.	Sex : Female						Species : Rat					
	Organ weight			Dose : Isononane 0 mg/kg			Species : Rat					
	Body weight	Liver	Kidney	Heart	Spleen	Re	AB	RE	AB	RE	AB	RE
Stage : Day 14 after delivery												
50151	351	11.91	3.39	2.42	0.69	1.12	0.32	0.32	594	169.23		
50152	350	11.61	3.32	2.03	0.58	1.12	0.32	0.32	616	176.00		
50153	318	9.37	2.95	2.38	0.75	1.04	0.33	0.33	504	158.49		
50154	294 \$	7.65 \$	2.60 \$	1.86 \$	0.63 \$	0.86 \$	0.29 \$	0.29 \$	513 \$	174.49 \$		
50155	357	11.15	3.12	2.14	0.60	1.10	0.31	0.31	442	123.81		
50156	352	11.29	3.21	2.14	0.61	1.10	0.31	0.31	688	195.45		
50157	362	13.28	3.67	2.21	0.61	1.21	0.33	0.33	686	189.50		
50159	350	11.56	3.30	2.24	0.64	1.10	0.31	0.31	593	169.43		
50160	318	10.51	3.31	2.04	0.64	1.15	0.36	0.36	716	225.16		
50161	337	12.57	3.73	2.08	0.62	1.01	0.30	0.30	678	201.19		
50162	339	11.37	3.35	2.07	0.61	1.11	0.33	0.33	737	217.40		
n	10	10	10	10	10	10	10	10	10	10	10	10
Mean	343.4	11.462	3.335	2.175	0.635	1.106	0.322	0.322	625.4	182.566		
S.D.	15.3	1.064	0.232	0.137	0.050	0.055	0.017	0.017	95.2	29.840		
Stage : Day 14 after delivery												
50151	276	78.63	78	22.22	11.8	3.36	25.4	7.24	142	40.46		
50152	319	91.14	75	21.43	18.0	5.14	15.7	4.49	143	40.86		
50153	254	79.87	71	22.33	18.2	5.72	16.9	5.31	108	33.96		
50154	332 \$	112.93 \$	67 \$	22.79 \$	17.8 \$	6.05 \$	27.1 \$	9.22 \$	110 \$	37.41 \$		
50155	286	80.11	70	19.61	18.2	5.10	21.5	6.02	113	31.65		
50156	233	66.19	74	21.02	16.5	4.69	19.7	5.60	92	26.14		
50157	180	49.72	78	21.55	14.4	3.98	15.1	4.17	101	27.90		
50159	160	45.71	78	22.29	17.6	5.03	16.8	4.80	100	28.57		
50160	218	68.55	61	19.18	15.9	5.00	25.9	8.14	119	37.42		
50161	220	65.28	87	25.82	16.1	4.78	14.0	4.15	112	33.23		
50162	392	115.63	64	18.88	14.7	4.34	25.7	7.58	104	30.68		
n	10	10	10	10	10	10	10	10	10	10	10	10
Mean	253.8	74.083	73.6	21.433	16.14	4.714	19.67	5.750	113.4	33.087		
S.D.	68.3	20.212	7.5	2.014	2.06	0.670	4.67	1.457	17.1	5.140		

AB : Absolute weight, RE : Relative weight by body weight
 Animal No. 50154 : Unsuccessful mating
 \$: Excluded data from calculation

Organ weight
Sex : Female

Stage : Day 14 after delivery
Dose : Isononane 0 mg/kg

Species : Rat

Animal No.	Uterus			Brain		
	AB mg	RE mg/100g	g	AB g	RE g/100g	
50151	601	171.23	2.05	0.58		
50152	579	165.43	1.97	0.56		
50153	413	129.87	2.11	0.66		
50154	629	\$ 213.95	2.17 \$	0.74 \$		
50155	478	133.89	1.95	0.55		
50156	560	159.09	2.18	0.62		
50157	596	164.64	2.03	0.56		
50159	471	134.57	2.13	0.61		
50160	537	168.87	2.11	0.66		
50161	607	180.12	2.05	0.61		
50162	609	179.65	2.16	0.64		
n	10	10	10	10		
Mean	545.1	158.736	2.074	0.605		
S.D.	68.7	19.055	0.077	0.041		

AB : Absolute weight, RE : Relative weight by body weight

Animal No. 50154 : Unsuccessful mating

\$: Excepted data from calculation

Animal No.	Sex : Female						Species : Rat					
	Organ weight			Dose : Isononane 60 mg/kg			Species : Rat					
	Body weight	Liver	Kidney	Heart	AB	RE	AB	RE	AB	RE	AB	RE
	g	g	g	g	g/100g	g/100g	g/100g	g/100g	mg	mg	mg	mg/100g
50251	344	10.95	3.18	2.02	0.59	1.29	0.38	0.38	601	174.71		
50252	335	10.95	3.27	2.15	0.64	1.05	0.31	0.31	594	177.31		
50253	326	11.22	3.44	2.34	0.72	1.10	0.34	0.34	791	242.64		
50254	348	11.52	3.31	2.13	0.61	1.16	0.33	0.33	604	173.56		
50255	325	11.62	3.58	2.06	0.63	1.00	0.31	0.31	648	199.38		
50256	321	11.90	3.71	2.03	0.63	1.13	0.35	0.35	572	178.19		
50257	339	11.55	3.41	2.15	0.63	1.08	0.32	0.32	618	182.30		
50258	332	10.76	3.24	2.24	0.67	1.27	0.38	0.38	741	223.19		
50259	313	11.25	3.59	2.06	0.66	1.02	0.33	0.33	611	195.21		
50260	335	11.24	3.36	2.14	0.64	1.06	0.32	0.32	585	174.63		
50261	334	11.89	3.56	2.26	0.68	1.13	0.34	0.34	603	180.54		
50262	365	10.91	2.99	2.18	0.60	1.18	0.32	0.32	575	157.53		
n	12	12	12	12	12	12	12	12	12	12	12	12
Mean	334.8	11.313	3.387	2.147	0.642	1.123	0.336	0.336	628.6	188.266		
S.D.	13.6	0.384	0.204	0.098	0.036	0.091	0.024	0.024	68.1	23.732		
	Thymus						Ovary					
	AB			RE			AB			RE		
	mg	mg/100g	mg	mg	mg/100g	mg	mg	mg/100g	mg	mg	mg	mg/100g
50251	297	86.34	92	26.74	16.0	4.65	18.7	5.44	126	36.63		
50252	195	58.21	77	22.99	14.9	4.45	26.3	7.85	119	35.52		
50253	310	95.09	89	27.30	14.2	4.36	20.5	6.29	107	32.82		
50254	159	45.69	80	22.99	14.9	4.28	17.6	5.06	87	25.00		
50255	163	50.15	98	30.15	15.9	4.89	18.9	5.82	111	34.15		
50256	183	57.01	75	23.36	21.2	6.60	21.2	6.60	87	27.10		
50257	224	66.08	65	19.17	17.2	5.07	22.7	6.70	89	26.25		
50258	268	80.72	77	23.19	16.5	4.97	11.1	3.34	105	31.63		
50259	228	72.84	70	22.36	15.4	4.92	27.1	8.66	104	33.23		
50260	140	41.79	103	30.75	16.3	4.87	24.5	7.31	92	27.46		
50261	155	46.41	109	32.63	16.0	4.79	23.0	6.89	135	40.42		
50262	326	89.32	59	16.16	19.6	5.37	25.4	6.96	86	23.56		
n	12	12	12	12	12	12	12	12	12	12	12	12
Mean	220.7	65.804	82.8	24.816	16.51	4.935	21.42	6.410	104.0	31.148		
S.D.	65.5	18.689	15.5	4.851	2.02	0.609	4.49	1.387	16.5	5.230		

AB : Absolute weight, RE : Relative weight by body weight

Organ weight
Sex : Female

Stage : Day 14 after delivery
Dose : Isononane 60 mg/kg

Species : Rat

Animal No.	Uterus			Brain		
	AB mg	RE mg/100g	AB g	RE g/100g		
50251	567	164.83	2.09	0.61		
50252	565	168.66	2.20	0.66		
50253	627	192.33	1.89	0.58		
50254	464	133.33	2.18	0.63		
50255	547	168.31	2.10	0.65		
50256	375	116.82	2.10	0.65		
50257	560	165.19	2.23	0.66		
50258	490	147.59	2.08	0.63		
50259	525	167.73	2.07	0.66		
50260	423	126.27	2.05	0.61		
50261	465	139.22	2.08	0.62		
50262	579	158.63	2.11	0.58		
n	12	12	12	12		
Mean	515.6	154.076	2.098	0.628		
S.D.	73.1	21.699	0.086	0.029		

AB : Absolute weight, RE : Relative weight by body weight

Animal No.	Organ weight						Species : Rat					
	Sex : Female			Dose : Isononane 250 mg/kg			Species : Rat					
	Body weight	Liver	Kidney	Heart	Spleen		AB	RE	AB	RE	AB	RE
	g	g	g	g	g	g/100g	g	g/100g	g	g/100g	mg	mg/100g
50351	367	13.11	3.57	2.36	0.64	1.16	0.32	0.32	0.33	0.33	566	154.22
50352	325	12.13	3.73	2.19	0.67	1.08	0.33	0.33	0.36	0.36	601	184.92
50353	326	12.77	3.92	2.20	0.67	1.17	0.33	0.33	0.36	0.36	524	160.74
50354	295 \$	8.47 \$	2.87 \$	2.05 \$	0.69 \$	0.97 \$	0.33 \$	0.33 \$	0.36	0.36	566 \$	191.86 \$
50356	344	12.37	3.60	2.48	0.72	1.09	0.32	0.32	0.34	0.34	564	163.95
50357	330	10.91	3.31	2.32	0.70	1.13	0.34	0.34	0.34	0.34	604	183.03
50358	339	12.83	3.78	2.49	0.73	1.14	0.34	0.34	0.34	0.34	567	167.26
50359	316	11.07	3.50	1.98	0.63	1.05	0.33	0.33	0.33	0.33	607	192.09
50360	312 \$	8.31 \$	2.66 \$	2.14 \$	0.69 \$	0.95 \$	0.30 \$	0.30 \$	0.30 \$	0.30 \$	499 \$	159.94 \$
50361	358	12.36	3.45	2.28	0.64	1.30	0.36	0.36	0.36	0.36	523	146.09
50362	306	10.88	3.56	2.05	0.67	1.05	0.34	0.34	0.34	0.34	634	207.19
n	9	9	9	9	9	9	9	9	9	9	9	9
Mean	334.6	12.048	3.602	2.261	0.674	1.130	0.338	0.338	0.338	0.338	576.7	173.277
S.D.	19.5	0.872	0.184	0.175	0.036	0.078	0.015	0.015	0.015	0.015	38.0	19.740
 Stage : Day 14 after delivery												
Thymus						Ovary						
Thyroid		Adrenal		Pituitary gland		Thyroid		Pituitary gland		Ovary		
AB		RE		AB		AB		AB		AB		
Animal No.	mg	mg/100g	mg	mg/100g	mg	mg	mg/100g	mg	mg/100g	mg	mg/100g	
50351	364	99.18	91	24.80	15.9	4.33	22.0	5.99	100	100	27.25	
50352	382	117.54	64	19.69	13.4	4.12	29.2	8.98	111	111	34.15	
50353	157	48.16	87	26.69	16.3	5.00	19.4	5.95	95	95	29.14	
50355	279 \$	94.58 \$	70 \$	23.73 \$	19.8 \$	6.71 \$	17.2 \$	5.83 \$	101 \$	101 \$	34.24 \$	
50356	215	62.50	79	22.97	17.7	5.15	19.0	5.52	119	119	34.59	
50357	351	106.36	68	20.61	17.1	5.18	19.5	5.91	103	103	31.21	
50358	199	58.70	81	23.89	18.4	5.43	26.0	7.67	137	137	40.41	
50359	260	82.28	68	21.52	14.9	4.72	16.0	5.06	103	103	32.59	
50360	274 \$	87.82 \$	87 \$	27.88 \$	14.8 \$	4.74 \$	19.9 \$	6.38 \$	115 \$	115 \$	36.86 \$	
50361	176	49.16	84	23.46	17.5	4.89	16.2	4.53	134	134	37.43	
50362	154	50.33	74	24.18	13.4	4.38	17.0	5.56	86	86	28.10	
n	9	9	9	9	9	9	9	9	9	9	9	
Mean	250.9	74.912	77.3	23.090	16.07	4.800	20.48	6.130	109.8	109.8	32.763	
S.D.	92.1	27.040	9.4	2.181	1.83	0.444	4.52	1.369	17.3	17.3	4.376	

AB : Absolute weight, RE : Relative weight by body weight
 Animal No. 50355 : Unsuccessful mating, Animal No. 50360 : Non-pregnancy
 \$: Excluded data from calculation

Organ weight
Sex : Female

Stage : Day 14 after delivery
Dose : Isononane 250 mg/kg

Animal No.	Uterus			Brain			Species : Rat
	AB mg	RE mg/100g	AB g	RE g/100g			
50351	558	152.04	2.14	0.58			
50352	640	196.92	1.97	0.61			
50353	474	145.40	2.17	0.67			
50355	1106 \$	374.92 \$	2.13 \$	0.72 \$			
50356	522	151.74	2.25	0.65			
50357	512	155.15	2.30	0.70			
50358	521	153.69	2.17	0.64			
50359	572	187.01	2.19	0.69			
50360	1055 \$	338.14 \$	2.12 \$	0.68 \$			
50361	447	124.86	2.17	0.61			
50362	639	208.82	2.12	0.69			
n	9	9	9	9			
Mean	542.8	163.292	2.164	0.649			
S.D.	66.7	26.770	0.091	0.042			

AB : Absolute weight, RE : Relative weight by body weight

Animal No. 50355 : Unsuccessful mating, Animal No. 50360 : Non-pregnancy

\$: Excepted data from calculation

Animal No.	Sex : Female						Species : Rat						
	Organ weight			Dose : Isononane 1000 mg/kg			Species : Rat						
	Body weight	Liver	Kidney	Heart	Spleen	RE	AB	RE	AB	RE	AB	RE	
	g	g	g	g	mg/100g	g	g	g	g	g	mg	mg/100g	
50451	316	15.19	4.81	2.31	9/100g	0.73	0.97	0.31	495	156.65			
50452	317	14.48	4.57	2.18	9/100g	0.69	0.95	0.30	513	161.83			
50453	286	12.25	4.28	2.04	9/100g	0.71	0.92	0.32	414	144.76			
50454	343	14.96	4.36	2.20	9/100g	0.64	1.14	0.33	614	179.01			
50455	290	13.04	4.50	2.02	9/100g	0.70	0.96	0.33	435	150.00			
50456	322	15.72	4.88	2.55	9/100g	0.79	1.20	0.37	752	233.54			
50457	311	15.37	4.94	2.38	9/100g	0.77	0.98	0.32	571	183.60			
50458	316	13.01	4.12	2.30	9/100g	0.73	1.02	0.32	544	172.15			
50459	313	15.22	4.86	2.23	9/100g	0.71	0.96	0.31	599	191.37			
50460	317	12.49	3.94	2.32	9/100g	0.73	1.03	0.32	694	218.93			
50462	358	16.94	4.73	2.53	9/100g	0.71	1.05	0.29	605	168.99			
n	11	11	11	11		11	11	11	11	11	11		
Mean	317.2	14.425	4.545	2.278		0.719	1.016	0.320	566.9	178.257			
S.D.	20.3	1.510	0.336	0.171		0.040	0.086	0.020	102.2	27.734			
Stage : Day 14 after delivery													
Dose : Isononane 1000 mg/kg						Ovary							
Thymus						Ovary							
Thymus		Adrenal		Pituitary gland		Thyroid		Ovary		Ovary		Ovary	
AB		RE		AB		RE		AB		RE		RE	
AB		RE		AB		RE		AB		RE		RE	
AB		RE		AB		RE		AB		RE		RE	
50451	153	48.42	88	27.85	12.7	4.02	20.0	6.33	113	35.76			
50452	243	76.66	94	29.65	17.5	5.52	22.3	7.03	113	35.65			
50453	228	79.72	105	36.71	13.7	4.79	19.7	6.89	111	38.81			
50454	330	96.21	84	24.49	17.8	5.19	21.8	6.36	109	31.78			
50455	112	38.62	84	28.97	17.9	6.17	11.9	4.10	88	30.34			
50456	157	48.76	116	36.02	18.4	5.71	17.5	5.43	121	37.58			
50457	193	62.06	78	25.08	11.8	3.79	15.1	4.86	122	39.23			
50458	172	54.43	64	20.25	13.6	4.30	17.7	5.60	82	25.95			
50459	154	49.20	76	24.28	12.7	4.06	17.7	5.65	93	29.71			
50460	161	50.79	90	28.39	22.2	7.00	21.3	6.72	96	30.28			
50462	168	46.93	141	39.39	17.7	4.94	19.4	5.42	130	36.31			
n	11	11	11	11	11	11	11	11	11	11	11		
Mean	188.3	59.255	92.7	29.189	16.00	5.045	18.58	5.854	107.1	33.764			
S.D.	59.4	17.597	21.3	5.941	3.27	1.000	3.08	0.907	15.3	4.350			

Organ weight
Sex : Female

Stage : Day 14 after delivery
Dose : Isononane 1000 mg/kg

Animal No.	Uterus			Brain			Species : Rat
	AB mg	RE mg/100g	AB g	RE g/100g	AB g	RE g/100g	
50451	408	129.11	1.99	0.63			
50452	429	135.33	2.11	0.67			
50453	712	248.95	2.03	0.71			
50454	426	124.20	2.25	0.66			
50455	326	112.41	1.97	0.68			
50456	547	169.88	2.03	0.63			
50457	504	162.06	2.23	0.72			
50458	300	94.94	2.04	0.65			
50459	412	131.63	1.97	0.63			
50460	434	136.91	2.13	0.67			
50462	482	134.64	1.98	0.55			
n	11	11	11	11			
Mean	452.7	143.642	2.066	0.655			
S.D.	111.5	40.489	0.101	0.046			

AB : Absolute weight, RE : Relative weight by body weight

Animal No.	Organ weight Sex : Female (satellite)				Stage : Day 29 Dose : Isononane 0 mg/kg				Species : Rat			
	Body weight		Liver		Kidney		Heart		Spleen			
	AB	g	AB	g/100g	AB	g	AB	g	AB	mg	AB	mg/100g
50551	283	7.20	2.54	3.33	0.65	0.91	0.32	0.32	640	226.15		
50552	278	7.38	2.65	1.84	0.66	0.86	0.31	0.31	590	212.23		
50553	301	7.84	2.60	1.89	0.63	0.92	0.31	0.31	413	137.21		
50554	283	6.94	2.45	1.86	0.66	0.91	0.32	0.32	538	190.11		
50555	290	7.06	2.43	1.85	0.64	0.93	0.32	0.32	390	134.48		
n		5	5	5	5	5	5	5	5	5	5	
Mean	287.0	7.284	2.534	1.854	0.648	0.906	0.316	0.316	514.2	180.036		
S.D.	8.9	0.351	0.094	0.023	0.013	0.027	0.005	0.005	109.3	42.349		
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Thymus				Adrenal				Pituitary gland				Ovary
Animal No.	AB	RE	AB	mg	RE	AB	mg	AB	RE	AB	mg	RE
	mg	mg/100g	mg	mg/100g	mg	mg	mg/100g	mg	mg/100g	mg	mg/100g	
50551	301	106.36	79	27.92	15.1	5.34	19.9	7.03	7.9	27.92		
50552	313	112.59	88	31.65	20.2	7.27	14.5	5.22	102	36.69		
50553	277	92.03	63	20.93	15.1	5.02	24.1	8.01	86	28.57		
50554	306	108.13	72	25.44	19.0	6.71	21.3	7.53	86	30.39		
50555	308	106.21	92	31.72	13.8	4.76	21.9	7.55	81	27.93		
n	5	5	5	5	5	5	5	5	5	5	5	
Mean	301.0	105.064	78.8	27.532	16.64	5.820	20.34	7.068	86.8	30.300		
S.D.	14.1	7.729	11.8	4.545	2.79	1.106	3.60	1.090	9.0	3.712		
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Uterus				Brain				Thyroid				Ovary
Animal No.	AB	RE	AB	mg	RE	AB	mg	AB	RE	AB	mg	RE
	mg	mg/100g	mg	mg/100g	mg	mg	mg/100g	mg	mg/100g	mg	mg/100g	
50551	598	211.31	2.22	0.78								
50552	563	202.52	2.13	0.77								
50553	576	191.36	1.99	0.66								
50554	492	173.85	2.07	0.73								
50555	652	224.83	2.12	0.73								
n	5	5	5	5	5	5	5	5	5	5	5	
Mean	576.2	200.774	2.106	0.734								
S.D.	58.1	19.405	0.084	0.047								

AB : Absolute weight, RE : Relative weight by body weight

		Organ weight Sex : Female (satellite)				Stage : Day 29 Dose : Isononane 1000 mg/kg				Species : Rat			
		Body weight		Liver		Kidney		Heart		Spleen			
		AB	g	AB	g	AB	g	AB	g	AB	mg	AB	mg
Animal No.			g/100g		g/100g		g/100g		g/100g		mg/100g		mg/100g
50651	269	10.76	4.00		2.06	0.77	0.83	0.31		315	117.10		
50653	261	10.97	4.20		2.20	0.84	0.95	0.36		424	162.45		
50654	267	11.12	4.16		1.99	0.75	0.95	0.36		541	202.62		
50655	256	10.06	3.93		2.09	0.82	0.92	0.36		470	183.59		
n		4	4		4	4	4	4		4	4		
Mean	263.3	10.728	4.073		2.085	0.795	0.913	0.348		437.5	166.440		
S.D.	5.9	0.469	0.128		0.087	0.042	0.057	0.025		94.8	36.758		
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		Thymus				Adrenal				Pituitary gland			
		AB	mg	AB	mg	AB	mg	AB	mg	AB	mg	AB	mg
Animal No.		mg/100g		mg/100g		mg/100g		mg/100g		mg/100g		mg/100g	
50651	311	115.61		86	31.97	14.1	5.24	19.8		7.36		115	42.75
50653	267	102.30		85	32.57	21.0	8.05	28.1		10.77		74	28.35
50654	302	113.11		107	40.07	15.0	5.62	17.3		6.48		127	47.57
50655	309	120.70		69	26.95	14.2	5.55	26.3		10.27		93	36.33
n		4	4		4	4	4	4		4	4		
Mean	297.3	112.930	86.8		32.890	16.08	6.115	22.88		8.720		102.3	38.750
S.D.	20.5	7.759	15.6		5.409	3.31	1.301	5.15		2.119		23.5	8.323
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		Uterus				Brain				Ovary			
		AB	mg	RE	mg/100g	AB	g	RE	g/100g	AB	mg	AB	mg
Animal No.			g/100g								mg/100g		mg/100g
50651	997	370.63		1.97									
50653	579	221.84		2.04									
50654	1136	425.47		2.07									
50655	504	196.88		2.14									
n		4	4		4								
Mean	804.0	303.705		2.055									
S.D.	309.9	111.683		0.070									

AB : Absolute weight, RE : Relative weight by body weight

Organ weight
Sex : Male

Animal No.	Stage : Recovery Day 15			Stage : Recovery Day 15			Species : Rat		
	Dose : Isononane 0 mg/kg			Dose : Isononane 0 mg/kg			Spleen		
Body weight	Liver		Kidney		Heart		AB		RE
	AB	g	RE	g	AB	g	g/100g	mg	mg/100g
10101	518	11.61	2.24	2.96	0.57	1.37	0.26	694	133.98
10105	535	12.55	2.35	2.85	0.53	1.41	0.26	704	131.59
10108	500	12.49	2.50	3.35	0.67	1.42	0.28	738	147.60
10109	493	12.15	2.46	3.08	0.62	1.49	0.30	665	134.89
10112	524	13.65	2.60	3.16	0.60	1.61	0.31	744	141.98
n	5	5	5	5	5	5	5	5	5
Mean	514.0	12.490	2.430	3.080	0.598	1.460	0.282	709.0	138.008
S.D.	17.3	0.748	0.139	0.191	0.053	0.094	0.023	32.6	6.613

Animal No.	Thymus			Adrenal			Pituitary gland			Thyroid			Testis		
	AB	RE	mg	AB	RE	mg	AB	RE	mg	AB	RE	mg	AB	RE	mg
10101	330	63.71	80	15.44	14.2	2.74	27.5	5.31	2.87	0.55	0.55	0.55	0.55	0.55	0.55
10105	343	64.11	62	11.59	10.7	2.00	16.8	3.14	3.45	0.64	0.64	0.64	0.64	0.64	0.64
10108	300	60.00	63	12.60	9.4	1.88	27.4	5.48	3.16	0.63	0.63	0.63	0.63	0.63	0.63
10109	338	68.56	76	15.42	12.5	2.54	16.9	3.43	3.64	0.74	0.74	0.74	0.74	0.74	0.74
10112	320	61.07	65	12.40	9.8	1.87	24.9	4.75	3.72	0.71	0.71	0.71	0.71	0.71	0.71
n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Mean	326.2	63.490	69.2	13.490	11.32	2.206	22.70	4.422	3.368	0.654	0.654	0.654	0.654	0.654	0.654
S.D.	17.0	3.323	8.2	1.811	2.00	0.406	5.44	1.077	0.352	0.074	0.074	0.074	0.074	0.074	0.074

Animal No.	Epididymis			Prostate			Seminal vesicle			Brain		
	AB	RE	mg	AB	RE	mg	AB	RE	mg	AB	RE	mg
10101	1.32	0.25	811	156.56	2.78	0.54	2.21	0.43	0.43	0.43	0.43	0.43
10105	1.50	0.28	683	127.66	2.24	0.42	2.07	0.39	0.39	0.39	0.39	0.39
10108	1.28	0.26	719	143.80	2.46	0.49	2.08	0.42	0.42	0.42	0.42	0.42
10109	1.44	0.29	543	110.14	2.52	0.51	2.14	0.43	0.43	0.43	0.43	0.43
10112	1.37	0.26	887	169.27	2.37	0.45	2.26	0.43	0.43	0.43	0.43	0.43
n	5	5	5	5	5	5	5	5	5	5	5	5
Mean	1.382	0.268	728.6	141.486	2.474	0.482	2.152	0.420	0.420	0.420	0.420	0.420
S.D.	0.089	0.016	130.9	23.336	0.201	0.048	0.082	0.017	0.017	0.017	0.017	0.017

Animal No.	Organ weight						Stage : Recovery Day 15						Species : Rat					
	Sex : Male			Liver			Kidney			Heart			Spleen					
	Body weight	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	
10401	489	13.63	2.79	3.66	0.75	1.47	0.30	0.30	0.30	0.30	0.30	693	141.72					
10405	493	14.15	2.87	2.87	0.58	1.46	0.30	0.30	0.30	0.30	0.30	761	154.36					
10407	501	14.74	2.94	3.20	0.64	1.60	0.32	0.32	0.32	0.32	0.32	877	175.05					
10409	483	12.28	2.54	3.28	0.68	1.35	0.28	0.28	0.28	0.28	0.28	854	176.81					
10412	460	13.30	2.89	3.75	0.82	1.33	0.29	0.29	0.29	0.29	0.29	865	188.04					
n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
Mean	485.2	13.620	2.806	3.352	0.694	1.442	0.298	0.298	0.298	0.298	0.298	810.0	167.196					
S.D.	15.5	0.926	0.158	0.388	0.094	0.108	0.015	0.015	0.015	0.015	0.015	79.9	18.724					
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Thymus																		
Animal No.	AB mg			RE mg			AB mg			RE mg			AB mg			RE mg		
	mg/100g			mg/100g			mg/100g			mg/100g			mg/100g			mg/100g		
10401	513	104.91	58	11.86	12.9	2.64	31.1	6.36	6.36	2.82	0.58							
10405	335	67.95	59	11.97	12.1	2.45	28.1	5.70	5.70	3.18	0.65							
10407	351	70.06	80	15.97	10.4	2.08	16.5	3.29	3.29	3.39	0.68							
10409	296	61.28	60	12.42	10.2	2.11	17.0	3.52	3.52	3.60	0.75							
10412	252	54.78	62	13.48	13.0	2.83	20.8	4.52	4.52	3.61	0.78							
n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Mean	349.4	71.796	63.8	13.140	11.72	2.422	22.70	4.678	4.678	3.320	0.688							
S.D.	99.1	19.458	9.2	1.707	1.34	0.328	6.60	1.338	1.338	0.331	0.080							
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Epididymis																		
Animal No.	AB g			RE g/100g			AB mg			RE mg/100g			AB g			RE g/100g		
	g/100g			mg/100g			mg			mg/100g			g			g/100g		
10401	1.26	0.26	676	138.24	2.19	0.45	2.04	0.42	0.42									
10405	1.15	0.23	758	153.75	2.11	0.43	2.07	0.42	0.42									
10407	1.38	0.28	652	130.14	2.03	0.41	2.17	0.43	0.43									
10409	1.38	0.29	505	104.55	2.12	0.44	2.14	0.44	0.44									
10412	1.47	0.32	795	172.83	2.48	0.54	2.16	0.47	0.47									
n	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Mean	1.328	0.276	677.2	139.902	2.186	0.454	2.116	0.436	0.436									
S.D.	0.124	0.034	112.6	25.672	0.174	0.050	0.058	0.021	0.021									

AB : Absolute weight, RE : Relative weight by body weight

Organ weight
Sex : Female (satellite)

Animal No.	Stage : Recovery Day 15			Stage : Recovery Day 15		
	Dose : Isononane 0 mg/kg			Dose : Isononane 0 mg/kg		
Body weight	Liver		Kidney		Heart	
	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g
50556	302	6.44	2.13	1.81	0.60	0.93
50557	308	7.99	2.59	2.02	0.66	1.01
50558	281	7.41	2.64	1.86	0.66	0.94
50559	302	8.48	2.81	2.14	0.71	0.90
50560	280	7.12	2.54	1.93	0.69	0.89
n	5	5	5	5	5	5
Mean	294.6	7.488	2.542	1.952	0.664	0.934
S.D.	13.1	0.787	0.252	0.131	0.042	0.047

Species : Rat

Animal No.	Stage : Recovery Day 15			Stage : Recovery Day 15		
	Dose : Isononane 0 mg/kg			Dose : Isononane 0 mg/kg		
Thymus	Adrenal		Pituitary gland		Thyroid	
	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g
50556	441	146.03	81	26.82	17.7	5.86
50557	304	98.70	74	24.03	20.7	6.72
50558	228	81.14	64	22.78	19.9	7.08
50559	434	143.71	77	25.50	18.1	5.99
50560	239	85.36	87	31.07	18.5	6.61
n	5	5	5	5	5	5
Mean	329.2	110.988	76.6	26.040	18.98	6.452
S.D.	103.1	31.612	8.6	3.96	1.27	0.514

Animal No.	Stage : Recovery Day 15			Stage : Recovery Day 15		
	Dose : Isononane 0 mg/kg			Dose : Isononane 0 mg/kg		
Uterus	Brain		Ovary		Reproductive organs	
	AB mg	RE mg/100g	AB g	RE g/100g	AB mg	RE mg/100g
50556	1023	342.05	2.14	0.71	89	29.47
50557	631	204.87	1.98	0.64	106	34.42
50558	632	224.91	1.94	0.69	103	36.65
50559	554	183.44	2.03	0.67	104	34.44
50560	525	187.50	2.16	0.77	86	30.71
n	5	5	5	5	5	5
Mean	675.0	228.554	2.050	0.696	97.6	33.138
S.D.	205.6	65.529	0.097	0.049	9.3	2.959

AB : Absolute weight, RE : Relative weight by body weight

Animal No.	Organ weight Sex : Female (satellite)			Stage : Recovery Day 15 Dose : Isononane 1000 mg/kg			Species : Rat	
	Body weight		Liver	Kidney		Heart	Spleen	
	AB g	RE g/100g	AB g	RE g/100g	AB g	RE g/100g	AB mg	RE mg/100g
50656	268	7.93	2.96	2.12	0.79	0.88	0.33	186.94
50657	278	7.67	2.76	1.59	0.57	1.07	0.38	614 220.86
50658	274	7.80	2.85	2.17	0.79	0.91	0.33	519 189.42
50659	300	7.03	2.34	1.70	0.57	0.89	0.30	499 166.33
50660	305	8.58	2.81	2.17	0.71	1.03	0.34	591 193.77
n	5	5	5	5	5	5	5	5
Mean	285.0	7.802	2.744	1.950	0.686	0.956	0.336	544.8 191.464
S.D.	16.5	0.556	0.238	0.282	0.111	0.088	0.029	53.9 19.531
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Animal No.	Thymus			Adrenal			Ovary	
	AB mg	RE mg/100g	AB mg	RE mg/100g	AB mg	RE mg/100g	Thyroid	
	395	147.39	86	32.09	16.2	6.04	18.1	6.75 106 39.55
50656	266	95.68	74	26.62	17.4	6.26	17.4	6.26 112 40.29
50657	388	141.61	80	29.20	15.0	5.47	20.6	7.52 110 40.15
50658	248	82.67	87	29.00	14.0	4.67	17.3	5.77 80 26.67
50659	329	107.87	74	24.26	21.9	7.18	25.0	8.20 96 31.48
50660	5	5	5	5	5	5	5	5 5
n	325.2	115.044	80.2	28.234	16.90	5.924	19.68	6.900 100.8 35.628
Mean	67.6	28.401	6.3	2.949	3.07	0.933	3.26	0.973 13.2 6.225
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Animal No.	Uterus			Brain			Ovary	
	AB mg	RE mg/100g	AB g	RE g/100g	AB mg	RE mg/100g	Thyroid	
	596	222.39	2.18	0.81	0.81	0.81	Ovary	
50656	546	196.40	1.98	0.71	0.71	0.71	Ovary	
50657	552	201.46	2.07	0.76	0.76	0.76	Ovary	
50658	559	186.33	2.11	0.70	0.70	0.70	Ovary	
50659	506	165.90	2.16	0.71	0.71	0.71	Ovary	
n	5	5	5	5	5	5	Ovary	
Mean	551.8	194.496	2.100	0.738	0.738	0.738	Ovary	
S.D.	32.2	20.704	0.080	0.047	0.047	0.047	Ovary	

AB : Absolute weight, RE : Relative weight by body weight

Histopathological findings		Stage : Day 29	Species : Rat
Test article : Isononane	Sex : Male		
Finding absent :	Dose : 0 mg/kg	Animal No. : 10102	
Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Testis, Epididymis, Prostate, Seminal vesicle, Coagulating gland, Cerebellum, Cerebrum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 10103	
Prostate			
Findings	Finding present		
	Inflammation, interstitium		
	Slight		
Peyer's patch			
Findings	Finding present		
	Mineralization		
	Slight		
Parathyroid			
Findings	Finding absent		
	Animal Comment : right parathyroid : missing		
Eyeball			
Findings	Finding present		
	Dysplasia, retina		
	Slight		
	Finding Comment : unilateral : right		
Finding absent :			
Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Testis, Epididymis, Seminal vesicle, Coagulating gland, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Pituitary gland, Thyroid, Adrenal, Harderian gland, Skeletal muscle, Femur, Mammary gland			

Histopathological findings				Species : Rat
Test article : Isononane	Sex : Male	Dose : 0 mg/kg	Animal No. : 10104	Stage : Day 29
Heart	Finding present			
	Infiltration, inflammatory cell, focal			
	Slight			
Prostate	Finding present			
	Inflammation, interstitium			
	Slight			
Thyroid	Finding present			
	Remnant ultimobranchial body			
	Slight			
	Finding Comment : unilateral : right			
Eyeball	Finding present			
	Dysplasia, retina			
	Slight			
	Finding Comment : unilateral : left			
	Atrophy, retina, focal			
	Slight			
	Finding Comment : unilateral : left			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Kidney, Urinary bladder, Testis, Epididymis, Seminal vesicle, Coagulating gland, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Parathyroid, Adrenal, Harderian gland, Skeletal muscle, Femur, Mammary gland			
Test article : Isononane		Dose : 0 mg/kg	Animal No. : 10106	
Pancreas	Finding present			
	Infiltration, inflammatory cell, interstitium			
	Slight			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Liver, Heart, Kidney, Urinary bladder, Testis, Epididymis, Prostate, Seminal vesicle, Coagulating gland, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Adrenal, Harderian gland, Skeletal muscle, Femur, Mammary gland			

Histopathological findings			Stage : Day 29	Species : Rat
Test article : Isononane	Sex : Male	Dose : 0 mg/kg	Animal No. : 10107	
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Testis, Epididymis, Prostate, Seminal vesicle, Coagulating gland, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			
Test article : Isononane	Prostate	Dose : 0 mg/kg	Animal No. : 10110	
	Findings	Finding present		
		Inflammation, interstitium		
		Moderate		
Harderian gland				
	Findings	Finding present		
		Infiltration, inflammatory cell, focal		
		Slight		
		Finding Comment : bilateral		
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Testis, Epididymis, Seminal vesicle, Coagulating gland, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Skeletal muscle, Femur, Mammary gland			
Test article : Isononane	Thyroid	Dose : 0 mg/kg	Animal No. : 10111	
	Findings	Finding present		
		Remnant, ultimobranchial body		
		Slight		
		Finding Comment : unilateral : right		
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Testis, Epididymis, Prostate, Seminal vesicle, Coagulating gland, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			

Histopathological findings				Species : Rat
Test article : Isononane	Sex : Male	Dose : 60 mg/kg	Animal No. : 10201	Stage : Day 29
Kidney				
Finding	Finding present			
Eosinophilic body, proximal tubular epithelium				
Slight				
Finding Comment :	bilateral			
Basophilic change, renal tubule, focal				
Slight				
Finding Comment :	unilateral : right			
Test article : Isononane		Dose : 60 mg/kg	Animal No. : 10202	
Kidney				
Finding	Finding present			
Eosinophilic body, proximal tubular epithelium				
Mild				
Finding Comment :	bilateral			
Basophilic change, renal tubule, focal				
Slight				
Finding Comment :	bilateral			
Test article : Isononane		Dose : 60 mg/kg	Animal No. : 10203	
Kidney				
Finding	Finding present			
Eosinophilic body, proximal tubular epithelium				
Slight				
Finding Comment :	bilateral			
Basophilic change, renal tubule, focal				
Slight				
Finding Comment :	bilateral			
Test article : Isononane		Dose : 60 mg/kg	Animal No. : 10204	
Kidney				
Finding	Finding present			
Eosinophilic body, proximal tubular epithelium				
Slight				
Finding Comment :	bilateral			
Test article : Isononane		Dose : 60 mg/kg	Animal No. : 10205	
Kidney				
Finding	Finding present			
Eosinophilic body, proximal tubular epithelium				
Slight				
Finding Comment :	bilateral			

Histopathological findings					
Test article :	Isononane	Sex : Male	Dose : 60 mg/kg	Animal No. : 10206	Stage : Day 29
Kidney					Species : Rat
Finding	Finding present				
	Eosinophilic body, proximal tubular epithelium				
	Slight				
	Finding Comment : bilateral				
Test article :	Isononane	Dose : 60 mg/kg		Animal No. : 10207	
Kidney					
Finding	Finding present				
	Eosinophilic body, proximal tubular epithelium				
	Slight				
	Finding Comment : bilateral				
Test article :	Isononane	Dose : 60 mg/kg		Animal No. : 10208	
Kidney					
Finding	Finding present				
	Eosinophilic body, proximal tubular epithelium				
	Slight				
	Finding Comment : bilateral				
	Basophilic change, renal tubule, focal				
	Mild				
	Finding Comment : bilateral				
Test article :	Isononane	Dose : 60 mg/kg		Animal No. : 10209	
Kidney					
Finding	Finding present				
	Eosinophilic body, proximal tubular epithelium				
	Mild				
	Finding Comment : bilateral				
	Basophilic change, renal tubule, focal				
	Slight				
	Finding Comment : bilateral				
Test article :	Isononane	Dose : 60 mg/kg		Animal No. : 10210	
Kidney					
Finding	Finding present				
	Eosinophilic body, proximal tubular epithelium				
	Slight				
	Finding Comment : bilateral				

Histopathological findings				Species : Rat
Test article : Isononane	Sex : Male	Dose : 60 mg/kg	Animal No. : 10211	Stage : Day 29
Kidney				
Finding	Finding present			
	Eosinophilic body, proximal tubular epithelium			
	Mild			
Finding Comment	bilateral			
	Basophilic change, renal tubule, focal			
	Mild			
Finding Comment	bilateral			
Test article : Isononane		Dose : 60 mg/kg	Animal No. : 10212	
Kidney				
Finding	Finding present			
	Eosinophilic body, proximal tubular epithelium			
	Mild			
Finding Comment	bilateral			
	Basophilic change, renal tubule, focal			
	Slight			
Finding Comment	bilateral			
	Cast, hyaline			
	Slight			
Finding Comment	unilateral : left			

Histopathological findings				Species : Rat
Test article : Isononane	Sex : Male	Dose : 250 mg/kg	Animal No. : 10301	Stage : Day 29
Kidney				
Finding	Finding present			
Eosinophilic body, proximal tubular epithelium				
Slight				
Finding Comment :	bilateral			
Basophilic change, renal tubule, focal				
Mild				
Finding Comment :	bilateral			
Test article : Isononane		Dose : 250 mg/kg	Animal No. : 10302	
Kidney				
Finding	Finding present			
Eosinophilic body, proximal tubular epithelium				
Mild				
Finding Comment :	bilateral			
Test article : Isononane		Dose : 250 mg/kg	Animal No. : 10303	
Kidney				
Finding	Finding present			
Eosinophilic body, proximal tubular epithelium				
Moderate				
Finding Comment :	bilateral			
Basophilic change, renal tubule, focal				
Mild				
Finding Comment :	bilateral			
Dilatation, renal tubule				
Slight				
Finding Comment :	bilateral			
Test article : Isononane		Dose : 250 mg/kg	Animal No. : 10304	
Kidney				
Finding	Finding present			
Eosinophilic body, proximal tubular epithelium				
Mild				
Finding Comment :	bilateral			
Basophilic change, renal tubule, focal				
Mild				
Finding Comment :	bilateral			

Histopathological findings				Species : Rat
Test article : Isononane	Sex : Male	Dose : 250 mg/kg	Animal No. : 10305	Stage : Day 29
Kidney				
Finding	Finding present			
	Eosinophilic body, proximal tubular epithelium			
	Mild			
	Finding Comment : bilateral			
	Basophilic change, renal tubule, focal			
	Slight			
	Finding Comment : bilateral			
Prostate				
Finding	Finding present			
	Inflammation, interstitium			
	Moderate			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Urinary bladder, Testis, Epididymis, Seminal vesicle, Coagulating gland, Cerebrum, Cerebellum, Pons, Spinal cord, Sacral nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			
Test article : Isononane		Dose : 250 mg/kg	Animal No. : 10306	
Kidney				
Finding	Finding present			
	Eosinophilic body, proximal tubular epithelium			
	Slight			
	Finding Comment : bilateral			
	Cast, hyaline			
	Slight			
	Finding Comment : unilateral : left			
Test article : Isononane		Dose : 250 mg/kg	Animal No. : 10307	
Kidney				
Finding	Finding present			
	Eosinophilic body, proximal tubular epithelium			
	Slight			
	Finding Comment : bilateral			

Test article : Isononane		Histopathological findings		Species : Rat
	Sex : Male	Dose : 250 mg/kg	Animal No. : 10308	
Kidney				Stage : Day 29
Findings	Finding present	Eosinophilic body, proximal tubular epithelium		
	Mild			
	Finding Comment :	bilateral		
	Basophilic change, renal tubule, focal			
	Slight			
	Finding Comment :	bilateral		
	Cast, hyaline			
	Slight			
	Finding Comment :	unilateral : left		
Kidney				
Findings	Finding present	Eosinophilic body, proximal tubular epithelium		
	Mild			
	Finding Comment :	bilateral		
	Basophilic change, renal tubule, focal			
	Slight			
	Finding Comment :	unilateral : right		
Kidney				
Findings	Finding present	Eosinophilic body, proximal tubular epithelium		
	Mild			
	Finding Comment :	bilateral		
	Basophilic change, renal tubule, focal			
	Slight			
	Finding Comment :	bilateral		

Histopathological findings				Species : Rat
Test article : Isononane	Sex : Male	Dose : 250 mg/kg	Animal No. : 10311	Stage : Day 29
Kidney				
Findings	Finding present			
	Eosinophilic body, proximal tubular epithelium			
	Mild			
	Finding Comment : bilateral			
	Basophilic change, renal tubule, focal			
	Slight			
	Finding Comment : unilateral : right			
Test article : Isononane		Dose : 250 mg/kg	Animal No. : 10312	
Kidney				
Findings	Finding present			
	Eosinophilic body, proximal tubular epithelium			
	Mild			
	Finding Comment : bilateral			
	Basophilic change, renal tubule, focal			
	Slight			
	Finding Comment : bilateral			

Test article : Isononane	Histopathological findings	Sex : Male	Dose : 1000 mg/kg	Animal No. : 10402	Stage : Day 29	Species : Rat
Kidney						
Finding	Finding present	Eosinophilic body, proximal tubular epithelium	Moderate			
		Finding Comment : bilateral : Eosinophilic bodies were Alpha-2u-globulin positive.				
		Basophilic change, renal tubule, focal	Mild			
		Finding Comment : bilateral				
Testis						
Finding	Finding present	Dilatation, seminiferous tubule	Slight			
		Finding Comment : unilateral : left				
Prostate						
Finding	Finding present	Inflammation, interstitium	Slight			
		Finding Comment : unilateral : left				
Thyroid						
Finding	Finding present	Remnant, ultimobranchial body	Slight			
		Finding Comment : unilateral : left				
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Urinary bladder, Epididymis, Seminal vesicle, Coagulating gland, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Parathyroid, Harderian gland, Eyeball, Adrenal, Mammary gland					

Histopathological findings				Species : Rat
Test article : Isondonane	Sex : Male	Dose : 1000 mg/kg	Animal No. : 10403	Stage : Day 29
Kidney	Finding : Finding present Eosinophilic body, proximal tubular epithelium Moderate			
	Finding Comment : bilateral			
Prostate	Finding : Finding present Inflammation, interstitium Slight			
	Finding Comment : bilateral			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Urinary bladder, Testis, Epididymis, Seminal vesicle, Coagulating gland, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			
Test article : Isondonane	Sex : Male	Dose : 1000 mg/kg	Animal No. : 10404	
Kidney	Finding : Finding present Eosinophilic body, proximal tubular epithelium Mild			
	Finding Comment : bilateral			
	Basophilic change, renal tubule, focal Slight			
	Finding Comment : bilateral			
Prostate	Finding : Finding present Inflammation, interstitium Mild			
	Finding Comment : bilateral			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Urinary bladder, Testis, Epididymis, Seminal vesicle, Coagulating gland, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			

Test article : Isononane		Histopathological findings			
	Sex : Male	Dose : 1000 mg/kg	Animal No. : 10406	Stage : Day 29	Species : Rat
Kidney					
Finding	Finding present				
	Eosinophilic body, proximal tubular epithelium				
	Mild				
	Finding Comment : bilateral				
Prostate					
Finding	Finding present				
	Inflammation, interstitium				
	Mild				
	Finding Comment : bilateral				
Thyroid					
Finding	Finding present				
	Remnant, ultimobranchial body				
	Slight				
	Finding Comment : unilateral : left				
Finding absent					
	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum,				
	Pancreas, Liver, Heart, Urinary bladder, Testis, Epididymis, Seminal vesicle, Coagulating gland, Cerebrum, Cerebellum,				
	Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node,				
	Peyer's patch, Pituitary gland, Parathyroid, Harderian gland, Eyeball, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland				
Test article : Isononane		Dose : 1000 mg/kg	Animal No. : 10408		
Kidney					
Finding	Finding present				
	Eosinophilic body, proximal tubular epithelium				
	Mild				
	Finding Comment : bilateral				
Prostate					
Finding	Finding present				
	Inflammation, interstitium				
	Mild				
	Finding Comment : bilateral				
Thyroid					
Finding	Finding present				
	Remnant, ultimobranchial body				
	Slight				
	Finding Comment : unilateral : right				
Parathyroid					
Finding	Finding absent				
	Animal Comment : right parathyroid : missing				
Finding absent					
	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum,				
	Pancreas, Liver, Heart, Urinary bladder, Testis, Epididymis, Seminal vesicle, Coagulating gland, Cerebrum, Cerebellum,				
	Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node,				
	Peyer's patch, Pituitary gland, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland				

Histopathological findings				Species : Rat
Test article : Isondonane	Sex : Male	Dose : 1000 mg/kg	Animal No. : 10410	Stage : Day 29
Kidney				
Finding	Finding present			
	Eosinophilic body, proximal tubular epithelium			
	Mild			
	Finding Comment : bilateral			
Testis				
Finding	Finding present			
	Sertoli-cell-only tubule			
	Severe			
	Finding Comment : unilateral : right			
Epididymis				
Finding	Finding present			
	Decrease, spermatozoa			
	Severe			
	Finding Comment : unilateral : right			
	Cell debris, lumen			
	Mild			
	Finding Comment : unilateral : right			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Urinary bladder, Prostate, Seminal vesicle, Coagulating gland, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			
Test article : Isondonane		Dose : 1000 mg/kg	Animal No. : 10411	
Kidney				
Finding	Finding present			
	Eosinophilic body, proximal tubular epithelium			
	Moderate			
	Finding Comment : bilateral			
	Basophilic change, renal tubule, focal			
	Mild			
	Finding Comment : bilateral			
	Dilatation, renal tubule			
	Mild			
	Finding Comment : bilateral			
Prostate				
Finding	Finding present			
	Inflammation, interstitium			
	Slight			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Urinary bladder, Testis, Epididymis, Seminal vesicle, Coagulating gland, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			

Histopathological findings			
Test article : Isondonane	Sex : Female	Animal No. : 50151	Species : Rat
Parathyroid	Dose : 0 mg/kg		
Finding absent :			
Findings : Finding absent			
Animal Comment : left parathyroid : missing			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland		
Test article : Isondonane	Dose : 0 mg/kg	Animal No. : 50152	
Ovary			
Findings : Finding present			
Cyst, lutein	Slight		
Finding Comment : unilateral : right			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland		
Test article : Isondonane	Dose : 0 mg/kg	Animal No. : 50153	
Pancreas			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland		
Test article : Isondonane	Dose : 0 mg/kg	Animal No. : 50154	\$
Pancreas			
Finding absent :			
Findings : Finding present			
Atrophy, acinar cell, focal	Slight		
Pituitary gland			
Findings : Finding present			
Cyst, pars distalis	Slight		
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland		

\$: Excepted data from statistical evaluation

		Histopathological findings			
Test article :	Isononane	Sex :	Female	Animal No. :	50155
Kidney		Dose :	0 mg/kg	Stage :	Day 14 after delivery
Finding	Finding present				Species : Rat
	Basophilic change, renal tubule, focal				
	Slight				
Cyst:		Finding Comment :	unilateral : left		
	Slight				
		Finding Comment :	unilateral : left		
Thymus					
	Finding	Finding present			
		Remnant, epithelial cell			
	Slight				
Parathyroid		Finding	absent		
		Animal Comment :	right parathyroid : missing		
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland				
Test article :	Isononane	Dose :	0 mg/kg	Animal No. :	50156
Thymus					
	Finding	Finding present			
		Remnant, epithelial cell			
	Slight				
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland				

Histopathological findings				Species : Rat
Test article : Isononane	Sex : Female	Dose : 0 mg/kg	Animal No. : 50157	Stage : Day 14 after delivery
Parathyroid				
Finding absent :				
Findings : Finding absent				
Animal Comment : fight parathyroid : missing				
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Harderian gland, Eyeball, Adrenal, Thyroid, Mammary gland			
Test article : Isononane		Dose : 0 mg/kg	Animal No. : 50158	Euthanized on gestation Day 23 \$
Liver				
Findings : Finding present				
Necrosis, focal				
Mild				
Kidney				
Findings : Finding present				
Necrosis, renal tubule, cortex				
Severe				
Finding Comment : bilateral				
Uterine horn				
Findings : Finding present				
Ulcer				
Moderate				
Finding Comment : unilateral : right				
Adrenal				
Findings : Finding present				
Necrosis, cortical cell				
Severe				
Finding Comment : bilateral				
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Urinary bladder, Ovary, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Eyeball, Harderian gland, Mammary gland			

\$: Excepted data from statistical evaluation

Histopathological findings			
	Sex : Female	Stage : Day 14 after delivery	Species : Rat
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50159	
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland		
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50160	
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland		
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50161	
Eyeball			
Findings : Finding present			
Dysplasia, retina	Slight		
	Finding Comment : unilateral : left		
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Harderian gland, Skeletal muscle, Femur, Mammary gland		
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50162	
Lung			
Findings : Finding present			
Accumulation, macrophage, alveolar	Slight		
Finding absent :	Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland		

Histopathological findings			Species : Rat
Test article : Isononane	Sex : Female	Dose : 60 mg/kg	Animal No. : 50251
Finding absent :	Liver		
Test article : Isononane		Dose : 60 mg/kg	Animal No. : 50252
Finding absent :	Liver		
Test article : Isononane		Dose : 60 mg/kg	Animal No. : 50253
Finding absent :	Liver		
Test article : Isononane		Dose : 60 mg/kg	Animal No. : 50254
Finding absent :	Liver		
Test article : Isononane		Dose : 60 mg/kg	Animal No. : 50255
Finding absent :	Liver		
Test article : Isononane		Dose : 60 mg/kg	Animal No. : 50256
Finding absent :	Liver		
Test article : Isononane		Dose : 60 mg/kg	Animal No. : 50257
Finding absent :	Liver		
Test article : Isononane		Dose : 60 mg/kg	Animal No. : 50258
Finding absent :	Liver		
Test article : Isononane		Dose : 60 mg/kg	Animal No. : 50259
Finding absent :	Liver		
Test article : Isononane		Dose : 60 mg/kg	Animal No. : 50260
Finding absent :	Liver		
Test article : Isononane		Dose : 60 mg/kg	Animal No. : 50261
Finding absent :	Liver		
Test article : Isononane		Dose : 60 mg/kg	Animal No. : 50262
Finding absent :	Liver		

Histopathological findings					Species : Rat
Test article : Isononane	Sex : Female	Dose : 250 mg/kg	Animal No. : 50351	Stage : Day 14 after delivery	Species : Rat
Finding absent :	Liver				
Test article : Isononane		Dose : 250 mg/kg	Animal No. : 50352		
Finding absent :	Liver				
Test article : Isononane		Dose : 250 mg/kg	Animal No. : 50353		
Finding absent :	Liver				
Test article : Isononane		Dose : 250 mg/kg	Animal No. : 50354	Euthanized on lactation Day 0	\$
Stomach					
Findings : Finding present					
Ulcer, pyloric stomach					
Mild					
Duodenum					
Findings : Finding present					
Vacuolation, hepatocyte, diffuse					
Mild					
Liver					
Findings : Finding present					
Vacuolation, tubular epithelium					
Mild					
Kidney					
Findings : Finding present					
Vacuolation, tubular epithelium					
Slight					
Finding Comment : bilateral					
Thymus					
Findings : Finding present					
Atrophy, cortex					
Moderate					
Submandibular lymph node					
Findings : Finding present					
Infiltration, inflammatory cell, granulocytic cell, sinus					
Slight					
Finding Comment : unilateral : right					
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Urinary bladder, Ovary, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Bone marrow, femur, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland				

\$: Exempted data from statistical evaluation

Histopathological findings						Species : Rat
	Sex : Female		Animal No. : 50355	Stage : Day 14 after delivery	\$	
Test article : Isondonane	Dose : 250 mg/kg			Unsuccessful mating		
Liver	Finding present					
	Hypertrophy, hepatocyte, centrilobular					
	Slight					
Thymus	Finding present					
	Remnant, epithelial cell					
	Slight					
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Spinal nerve, Sciatic nerve, Spleen, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland					
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 503556				
Finding absent :	Liver					
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50357				
Finding absent :	Liver					
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50358				
Finding absent :	Liver					
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50359				
Finding absent :	Liver					
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50360	Non-pregnancy	\$		
Liver	Finding present					
	Vacuolation, hepatocyte, periportal					
	Slight					
Kidney	Finding present					
	Dilatation, renal pelvis					
	Slight					
	Finding Comment : bilateral					
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Spinal nerve, Sciatic nerve, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland					
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50361				
Finding absent :	Liver					
Test article : Isondonane	Dose : 250 mg/kg	Animal No. : 50362				
Finding absent :	Liver					
	\$: Excepted data from statistical evaluation					

Histopathological findings		Species : Rat	
	Sex : Female	Stage : Day 14 after delivery	
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50451	
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland		
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50452	
Liver	Finding present Hyper trophy, hepatocyte, centrilobular Slight		
Heart	Finding present Infiltration, inflammatory cell, focal Slight		
Mammary gland	Finding present Infiltration, inflammatory cell Slight		
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur		
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50453	
Liver	Finding present Hyper trophy, hepatocyte, centrilobular Slight		
Peyer's patch	Finding present Mineralization Mild		
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland		

Histopathological findings				Species : Rat
Test article : Isononane	Sex : Female	Dose : 1000 mg/kg	Animal No. : 50454	Stage : Day 14 after delivery
Liver	Finding present Hyper trophy, hepatocyte, centrilobular Slight			
Kidney	Finding present Cast, hyaline Slight			
	Finding Comment : unilateral : left			
Thymus	Finding present Remnant, epithelial cell Slight			
	Finding absent : Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Bone marrow, Femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50455		
Liver	Finding present Hyper trophy, hepatocyte, centrilobular Slight			
Thyroid	Finding present Remnant, ultimobranchial body Slight			
	Finding Comment : unilateral : right			
Eyeball	Finding present Dysplasia, retina Slight			
	Finding Comment : unilateral : right			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, Femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Parathyroid, Adrenal, Harderian gland, Skeletal muscle, Femur, Mammary gland			

Histopathological findings				Species : Rat
Test article : Isononane	Sex : Female	Dose : 1000 mg/kg	Animal No. : 50456	Stage : Day 14 after delivery
Liver	Finding present Hyper trophy, hepatocyte, centrilobular Slight			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sacral nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50457		
Liver	Finding present Hyper trophy, hepatocyte, centrilobular Slight			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sacral nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50458		
Liver	Finding present Hyper trophy, hepatocyte, centrilobular Slight			
Thymus	Finding present Remnant, epithelial cell Slight			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sacral nerve, Spleen, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			

Histopathological findings				Species : Rat
Test article : Isononane	Sex : Female	Animal No. : 50459	Stage : Day 14 after delivery	
Liver	Finding present Hypertrophy, hepatocyte, centrilobular Slight			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sacral nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50460		
Thymus	Finding present Remnant, epithelial cell Slight			
Thyroid	Finding present Remnant, ultimobranchial body Slight			
	Finding Comment : unilateral : left			
Parathyroid	Finding absent Animal Comment : left parathyroid : missing			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sacral nerve, Spleen, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			

		Histopathological findings					
		Sex : Female	Dose : 1000 mg/kg	Animal No. : 50461	Euthanized on lactation Day 3	Stage : Day 14 after delivery	Species : Rat
Test article : Isononane	Liver	Findings	Finding present				
			Hypertrophy, hepatocyte, centrilobular				
			Mild				
			Vacuolation, hepatocyte, periportal				
			Slight				
	Kidney	Findings	Finding present				
			Vacuolation, tubular epithelium				
			Mild				
			Finding Comment : bilateral				
	Spleen	Findings	Finding present				
			Atrophy, white pulp				
			Slight				
	Thymus	Findings	Finding present				
			Atrophy, cortex				
			Severe				
	Bone marrow, femur	Findings	Finding present				
			Decrease, hematopoiesis				
			Slight				
	Finding absent :		Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland				

\$: Excepted data from statistical evaluation

Histopathological findings			Species : Rat	
Test article : Isondonane	Sex : Female	Dose : 1000 mg/kg	Animal No. : 50462	Stage : Day 14 after delivery
Liver	Finding present			
	Hypertrophy, hepatocyte, centrilobular			
	Slight			
Spleen	Finding present			
	Atrophy, white pulp			
	Mild			
Thyroid	Finding present			
	Remnant, ultimobranchial body			
	Slight			
	Finding Comment : unilateral : right			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			

		Histopathological findings		
Test article :	Isononane	Sex : Female (satellite)	Animal No. : 50551	Species : Rat
		Peyer's patch	Dose : 0 mg/kg	Stage : Day 29
Finding absent :				
Peyer's patch				
Findings - Finding present				
Mineralization	Slight			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50552		
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50553		
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50554		
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			
Test article : Isononane	Dose : 0 mg/kg	Animal No. : 50555		
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			
Test article : Thymus	Dose : 0 mg/kg	Animal No. : 50555		
Findings - Finding present				
Remnant, epithelial cell	Slight			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Liver, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			

Histopathological findings				Species : Rat
Test article : Isononane	Sex : Female (satellite)	Animal No. : 50651	Stage : Day 29	
Liver	Finding present Hyper trophy, hepatocyte, centrilobular Slight			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Kidney, Urinary bladder, Ovary, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			
Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50652	Euthanized on Day 7	\$
Liver	Finding present Hyper trophy, hepatocyte, centrilobular Slight			
Kidney	Finding present Dilatation, renal tubule Mild			
	Finding Comment : bilateral Vacuolation, tubular epithelium Slight			
	Finding Comment : bilateral			
Spleen	Finding present Atrophy, white pulp Moderate			
	Finding Comment : Atrophy, cortex Moderate			
Thymus	Finding present Atrophy, cortex Moderate			
Bone marrow, femur	Finding present Decrease, hematopoiesis Slight			
Submandibular lymph node	Finding present Depletion, lymphoid, paracortical zone Mild			
	Finding Comment : bilateral			
Finding absent :	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Urinary bladder, Ovary, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland			

\$: Excepted data from statistical evaluation

Histopathological findings				Species : Rat
Test article : Isononane	Sex : Female (satellite)	Dose : 1000 mg/kg	Animal No. : 50653	Stage : Day 29
Liver	FINDINGS	Finding present Hyper trophy, hepatocyte, centrilobular Slight		
	FINDING ABSENT	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland		
Test article : Isononane	Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50654	
Liver	FINDINGS	Finding present Hyper trophy, hepatocyte, centrilobular Slight		
	FINDING ABSENT	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland		
Test article : Isononane	Test article : Isononane	Dose : 1000 mg/kg	Animal No. : 50655	
Liver	FINDINGS	Finding present Hyper trophy, hepatocyte, centrilobular Slight		
	FINDING ABSENT	Lung, Bronchus, Trachea, Submandibular gland, Esophagus, Stomach, Duodenum, Jejunum, Ileum, Cecum, Colon, Rectum, Pancreas, Heart, Kidney, Urinary bladder, Ovary, Uterine horn, Uterine cervix, Vagina, Cerebrum, Cerebellum, Pons, Spinal cord, Sciatic nerve, Spleen, Thymus, Bone marrow, femur, Submandibular lymph node, Mesenteric lymph node, Peyer's patch, Pituitary gland, Thyroid, Parathyroid, Adrenal, Eyeball, Harderian gland, Skeletal muscle, Femur, Mammary gland		

Histopathological findings				Species : Rat
Test article : Isononane	Sex : Male	Dose : 0 mg/kg	Animal No. : 10101	
Finding absent:	Kidney			
Test article : Isononane		Dose : 0 mg/kg	Animal No. : 10105	
Finding absent:	Kidney			
Test article : Isononane		Dose : 0 mg/kg	Animal No. : 10108	
Finding absent:	Kidney			
Test article : Isononane		Dose : 0 mg/kg	Animal No. : 10109	
Finding absent:	Kidney			
Test article : Isononane		Dose : 0 mg/kg	Animal No. : 10112	
Finding absent:	Kidney			

Histopathological findings			
	Sex : Male	Dose : 1000 mg/kg	Animal No. : 10401
Test article : Isononane	Kidney		
Finding absent :			
Test article : Isononane	Kidney		
Finding present			
	Basophilic change, renal tubule, focal		
	Slight		
	Finding Comment : unilateral : left		
Test article : Isononane	Kidney		
Finding present			
	Basophilic change, renal tubule, focal		
	Slight		
	Finding Comment : unilateral : left		
Test article : Isononane	Kidney		
Finding present			
	Basophilic change, renal tubule, focal		
	Mild		
	Finding Comment : bilateral		
Test article : Isononane	Kidney		
Finding present			
	Basophilic change, renal tubule, focal		
	Mild		
	Finding Comment : bilateral		

Histopathological findings			
Test article :	Isononane	Sex : Female (satellite)	Stage : Recovery Day 15
Finding absent:	Liver	Dose : 0 mg/kg	Animal No. : 50556
Test article :	Isononane	Dose : 0 mg/kg	Animal No. : 50557
Finding absent:	Liver		
Test article :	Isononane	Dose : 0 mg/kg	Animal No. : 50558
Finding absent:	Liver		
Test article :	Isononane	Dose : 0 mg/kg	Animal No. : 50559
Finding absent:	Liver		
Test article :	Isononane	Dose : 0 mg/kg	Animal No. : 50560
Finding absent:	Liver		

Histopathological findings				Species : Rat
Test article : Isononane	Sex : Female (satellite)	Dose : 1000 mg/kg	Animal No. : 50656	
Finding absent:	Liver			
Test article : Isononane		Dose : 1000 mg/kg	Animal No. : 50657	
Finding absent:	Liver			
Test article : Isononane		Dose : 1000 mg/kg	Animal No. : 50658	
Finding absent:	Liver			
Test article : Isononane		Dose : 1000 mg/kg	Animal No. : 50659	
Finding absent:	Liver			
Test article : Isononane		Dose : 1000 mg/kg	Animal No. : 50660	
Finding absent:	Liver			

Estrous cycles and copulation

Generation : F₀
/Before mating (day)

Animal No.	Dose : Isomannane 0 mg/kg												Mean 4.0	Number of estrus 4	Species : Rat Animal with acyclic or irregular cycle -	
	Length of estrous cycle (days)															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
50151	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4	4
50152	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4	4
50153	D	P	E	E	M	D	P	E	E	M	D	D	P	E	5	5.5
50154	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4	4
50155	P	E	M	D	P	E	E	M	D	D	D	D	D	D	4	4
50156	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4	4
50157	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4	4
50158	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4	4
50159	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4	4
50160	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4	4
50161	D	P	E	M	D	P	E	M	D	P	E	M	D	P	4	4
50162	D	P	E	M	D	P	E	M	D	P	E	M	D	P	4	4

P : Proestrus, E : Estrus, M : Metestrus, D : Diestrus

+ : Animal with acyclic or irregular cycle, - : Animal with normal and regular cycle

Estrous cycles and copulation

Generation : F₀
./Before mating (day)

Animal No.	Dose : Isononane 60 mg/kg												Mean 4.0	Number of estrus 4	Species : Rat Animal with acyclic or irregular cycle	
	Length of estrous cycle (days)															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14		
50251	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4	-
50252	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4	4
50253	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4	4
50254	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4	-
50255	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4	3
50256	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4	-
50257	M	D	P	E	M	D	P	E	M	D	D	P	E	M	5	3
50258	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4	-
50259	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4	-
50260	D	P	E	M	D	P	E	M	D	P	E	M	D	P	4	4
50261	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4	3
50262	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4	-

P : Proestrus, E : Estrus, M : Metestrus, D : Diestrus

+ : Animal with acyclic or irregular cycle, - : Animal with normal and regular cycle

Estrous cycles and copulation

Animal No.	Generation : F0												Dose : Isomannane 250 mg/kg												Species : Rat				
	/Before mating (day)				Length of estrous cycle (days)								Mean				Number of estrus		Animal with acyclic or irregular cycle										
	P	E	M	D	P	E	M	D	P	E	M	D	P	E	P	E	M	D	P	E	4	4	4	4	4	-	-	-	-
50351	D	P	E	M	D	P	E	M	D	P	E	M	D	P	P	E	M	D	P	E	4	4	4	4.0	3	-	-	-	
50352	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4	4	4	4.0	3	-	-	-	
50353	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	4	4	4	4.0	3	-	-	-	
50354	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	4	4	4	4.0	4	-	-	-	
50355	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4	4	4	4.0	4	-	-	-	
50356	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4	4	4	4.0	4	-	-	-	
50357	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4	4	4	4.0	3	-	-	-	
50358	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4	4	4	4.0	4	-	-	-	
50359	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4	4	4	4.0	4	-	-	-	
50360	E	M	D	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4	4	4	4.3	4	-	-	-	
50361	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	4	4	4	4.0	4	-	-	-	
50362	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	D	P	E	4	4	4	4.0	3	-	-	-	

P : Proestrus, E : Estrus, M : Metestrus, D : Diestrus

+ : Animal with acyclic or irregular cycle, - : Animal with normal and regular cycle

Estrous cycles and copulation

Animal No.	Generation : F0												Dose : Isononane 1000 mg/kg												Species : Rat	
	/Before mating (day)				Length of estrous cycle (days)								Mean				Number of estrus									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14		3	+									
50451	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	6	4	4.0	3	+					
50452	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	6	4	5.0	3	-			
50453	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4	4.0	4	4	-		
50454	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	4	4.0	4	4	-		
50455	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	4	4.0	4	4	-		
50456	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4	4.0	4	4	-		
50457	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	5	5.0	2	2	-		
50458	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4	4.0	4	4	-		
50459	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4	4.0	4	4	-		
50460	M	D	P	E	E	M	D	E	M	D	P	E	M	D	P	E	M	D	P	4	4.0	3	3	-		
50461	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	P	E	M	D	4	4.0	4	4	-		
50462	E	M	D	P	E	M	D	D	D	D	D	D	D	D	D	D	D	D	D	4	4.0	2	2	+		

P : Proestrus, E : Estrus, M : Metestrus, D : Diestrus

+ : Animal with acyclic or irregular cycle, - : Animal with normal and regular cycle

Estrous cycles and copulation

Animal No.	Generation : F0												Dose : Isomannane 0 mg/kg							Species : Rat
	/1st mating (times)		Dose : Isomannane 0 mg/kg																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
50151	D	P	E																	
50152	N	N	Y																	
50153	D	P	E																	
50154	E	Y																		
50155	M	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D		
50156	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N		
50157	D	D	D	D	P	E														
50158	N	N	N	N	N	N	Y													
50159	M	N	N	N	N	N	P	E												
50160	M	N	N	Y			M	D	P	E										
50161	E	Y	Y				N	N	Y											
50162	E	Y																		

Upper / P : Proestrus, E : Estrus, M : Metestrus, D : Diestrus

Lower / Y : Completion in copulation, N : Incompletion in copulation

Estrous cycles and copulation

Animal No.	Generation : F0												Species : Rat	
	/1st mating (times)		Dose : Isononane 60 mg/kg											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
50251	D	P	E											
50252	N	N	Y											
50253	M	N	D	P	E									
50254	D	N	N	Y										
50255	M	N	D	P	E									
50256	P	N	Y											
50257	D	N	N	Y										
50258	D	N	N	P	E									
50259	D	N	N	Y										
50260	E	Y												
50261	P	E												
50262	M	N	D	P	E									

Upper / P : Proestrus, E : Estrus, M : Metestrus, D : Diestrus

Lower / Y : Completion in copulation, N : Incompletion in copulation

Estrous cycles and copulation

Animal No.	Generation : F0							Dose : Isomonane 250 mg/kg							
	/1st mating (times)		1	2	3	4	5	6	7	8	9	10	11	12	13	14
50351	M	D	D	D	D	D	D	D	D	D	D	D	D	P	E
50352	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y
50353	E	P	P	N	Y	E									
50354	D	P	E												
50355	N	N	Y												
50356	D	P	E												
50357	M	D	P												
50358	N	N	N	Y											
50359	N	N	N	D	P	E									
50360	M	N	D	N	N	Y									
50361	N	N	D	P	E										
50362	P	E	N	Y											

Upper / P : Proestrus, E : Estrus, M : Metestrus, D : Diestrus

Lower / Y : Completion in copulation, N : Incompletion in copulation

Estrous cycles and copulation

Generation : F₀
/1st mating (times)

Animal No.	Dose : Isononane 1000 mg/kg													Species : Rat
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
50451	D	D	P	E										
50452	N	N	N	Y										
50453	D	P	E											
50454	D	N	N	Y										
50455	E	Y	M	P	E									
50456	M	N	D	P	E									
50457	D	N	N	Y										
50458	E	Y	D	P	E	M	D	P	E					
50459	D	N	N	N	N	N	N	N	N	Y				
50460	P	E	D	P	E	N	Y							
50461	D	P	E											
50462	P	E	N	Y										

Upper / P : Proestrus, E : Estrus, M : Metestrus, D : Diestrus

Lower / Y : Completion in copulation, N : Incompletion in copulation

Animal No.	Reproductive performance			Dose : Isomannane 0 mg/kg			Species : Rat		
	Generation : F0	Sex : Male		1st mating			2nd mating		
		Day of conceiving	Paired animal	Copulation	Fertility	Paired animal	Copulation	Fertility	Copulation
10101		3	50151	+	+	///	///	///	+
10102		3	50152	+	+	///	///	///	+
10103		1	50153	+	+	///	///	///	+
10104		-	50154	-	///	///	///	///	//
10105		5	50155	+	+	///	///	///	-
10106		2	50156	+	+	///	///	///	+
10107		4	50157	+	+	///	///	///	+
10108		4	50158	+	+	///	///	///	+
10109		2	50159	+	+	///	///	///	+
10110		4	50160	+	+	///	///	///	+
10111		1	50161	+	+	///	///	///	+
10112		1	50162	+	+	///	///	///	+
n		11		12	11		0	0	12
Mean		2.7							11
S.D.		1.4							11
No. of positives			11	11					91.7
%			91.7	100.0					100.0

/// : No need to input/measure

Animal No.	Reproductive performance						Species : Rat		
	Generation : F0		Sex : Male		Dose : Isomannane 60 mg/kg		Copulation		Total
	Day of conceiving	Paired animal	Copulation	Fertility	Paired animal	Copulation	Fertility	Copulation	
10201	3	50251	+	+	///	///	///	+	+
10202	4	50252	+	+	///	///	///	+	+
10203	3	50253	+	+	///	///	///	+	+
10204	4	50254	+	+	///	///	///	+	+
10205	2	50255	+	+	///	///	///	+	+
10206	3	50256	+	+	///	///	///	+	+
10207	3	50257	+	+	///	///	///	+	+
10208	3	50258	+	+	///	///	///	+	+
10209	3	50259	+	+	///	///	///	+	+
10210	1	50260	+	+	///	///	///	+	+
10211	2	50261	+	+	///	///	///	+	+
10212	4	50262	+	+	///	///	///	+	+
n	12	12	12	12	0	0	0	12	12
Mean	2.9								
S.D.	0.9								
No. of positives		12	12	12				12	12
%		100.0	100.0	100.0				100.0	100.0

/// : No need to input/measure

Animal No.	Reproductive performance			Dose : Isomannane 250 mg/kg			Species : Rat		
	Generation : F0	Sex : Male		1st mating			2nd mating		
		Day of conceiving	Paired animal	Copulation	Fertility	Paired animal	Copulation	Fertility	Copulation Total
10301	13	50351	+	+	///	///	///	///	+ + + + + + + + + +
10302	1	50352	+	+	///	///	///	///	
10303	2	50353	+	+	///	///	///	///	+ + + +
10304	3	50354	+	+	///	///	///	///	+ + +
10305	-	50355	-	///	///	///	///	///	//
10306	4	50356	+	+	///	///	///	///	- + + + +
10307	2	50357	+	+	///	///	///	///	+ + + +
10308	4	50358	+	+	///	///	///	///	+ + + +
10309	4	50359	+	+	///	///	///	///	+ + + +
10310	4	50360	+	-	///	///	///	///	- + + +
10311	3	50361	+	+	///	///	///	///	+ + + +
10312	2	50362	+	+	///	///	///	///	+ + + +
n	11		12	11		0	0	12	11
Mean	3.8								
S.D.	3.2								
No. of positives		11	10					11	10
%		91.7	90.9					91.7	90.9

/// : No need to input/measure

Animal No.	Reproductive performance			Dose : Isomannane 1000 mg/kg			Species : Rat		
	Generation : F0	Sex : Male		1st mating		2nd mating		Total	
		Day of conceiving	Paired animal	Copulation	Fertility	Paired animal	Copulation	Copulation	Fertility
10401	4	50451	+	+	///	///	///	+	+
10402	3	50452	+	+	///	///	///	+	+
10403	3	50453	+	+	///	///	///	+	+
10404	1	50454	+	+	///	///	///	+	+
10405	4	50455	+	+	///	///	///	+	+
10406	3	50456	+	+	///	///	///	+	+
10407	1	50457	+	+	///	///	///	+	+
10408	7	50458	+	+	///	///	///	+	+
10409	3	50459	+	+	///	///	///	+	+
10410	2	50460	+	+	///	///	///	+	+
10411	3	50461	+	+	///	///	///	+	+
10412	2	50462	+	+	///	///	///	+	+
n	12		12	12		0	0	12	12
Mean	3.0								
S.D.	1.6								
No. of positives			12	12				12	12
%			100.0	100.0				100.0	100.0

/// : No need to input/measure

Animal No.	Reproductive performance			Dose : Isomannane 0 mg/kg			Species : Rat		
	Generation : F0	Sex : Female	Day of conceiving	1st mating			2nd mating		
				Paired animal	Copulation	Fertility	Paired animal	Copulation	Fertility
50151	3	10101					///	///	///
50152	3	10102		+	+		///	///	///
50153	1	10103		+	+		///	///	///
50154	-	10104			///		///	///	///
50155	5	10105		+	+		///	///	-
50156	2	10106		+	+		///	///	+
50157	4	10107		+	+		///	///	+
50158	4	10108		+	+		///	///	+
50159	2	10109		+	+		///	///	+
50160	4	10110		+	+		///	///	+
50161	1	10111		+	+		///	///	+
50162	1	10112		+	+		///	///	+
n	11		12	11			0	0	12
Mean	2.7								11
S.D.	1.4								11
No. of positives		11	11						91.7
%		91.7	100.0						100.0

/// : No need to input/measure

Animal No.	Reproductive performance			Dose : Isomannane 60 mg/kg			Species : Rat		
	Generation : F0	Sex : Female	Day of conceiving	1st mating			2nd mating		
				Paired animal	Copulation	Fertility	Paired animal	Copulation	Fertility
50251	3	10201					///	///	///
50252	4	10202		+	+		///	///	///
50253	3	10203		+	+		///	///	///
50254	4	10204		+	+		///	///	///
50255	2	10205		+	+		///	///	///
50256	3	10206		+	+		///	///	///
50257	3	10207		+	+		///	///	///
50258	3	10208		+	+		///	///	///
50259	3	10209		+	+		///	///	///
50260	1	10210		+	+		///	///	///
50261	2	10211		+	+		///	///	///
50262	4	10212		+	+		///	///	///
n	12		12	12	12		0	0	12
Mean	2.9								12
S.D.	0.9								12
No. of positives				12	12				100.0
%				100.0	100.0				100.0

/// : No need to input/measure

Animal No.	Reproductive performance			Dose : Isomannane 250 mg/kg			Species : Rat		
	Generation : F0	Sex : Female	Day of conceiving	1st mating			2nd mating		
				Paired animal	Copulation	Fertility	Paired animal	Copulation	Fertility
50351	13	10301					///	///	///
50352	1	10302		+	+		///	///	///
50353	2	10303		+	+		///	///	///
50354	3	10304		+	+		///	///	///
50355	-	10305	-	///	///		///	///	///
50356	4	10306	+	+	+		///	///	///
50357	2	10307	+	+	+		///	///	///
50358	4	10308	+	+	+		///	///	///
50359	4	10309	+	+	+		///	///	///
50360	4	10310	+	-	-		///	///	///
50361	3	10311	+	+	+		///	///	///
50362	2	10312	+	+	+		///	///	///
n	11		12	11			0	0	12
Mean	3.8								11
S.D.	3.2								10
No. of positives		11	10						91.7
%		91.7	90.9						90.9

/// : No need to input/measure

Animal No.	Reproductive performance			Dose : Isomannane 1000 mg/kg			Species : Rat		
	Generation : F0	Sex : Female	Day of conceiving	1st mating			2nd mating		
				Paired animal	Copulation	Fertility	Paired animal	Copulation	Fertility
50451	4		10401	+	+	/	/	/	/
50452	3		10402	+	+	/	/	/	/
50453	3		10403	+	+	/	/	/	/
50454	1		10404	+	+	/	/	/	/
50455	4		10405	+	+	/	/	/	/
50456	3		10406	+	+	/	/	/	/
50457	1		10407	+	+	/	/	/	/
50458	7		10408	+	+	/	/	/	/
50459	3		10409	+	+	/	/	/	/
50460	2		10410	+	+	/	/	/	/
50461	3		10411	+	+	/	/	/	/
50462	2		10412	+	+	/	/	/	/
n	12			12	12		0	0	12
Mean	3.0								12
S.D.	1.6								12
No. of positives				12	12				100.0
%				100.0	100.0				100.0

/ / : No need to input/measure

Dam No.	Delivery data			Dose : Isononane 0 mg/kg			Number of dead newborns			Species : Rat		
	Gestation length (day)	Number of implantation	Delivery index (%)	Number of offspring			M	F	Total	M	F	U
				M	F	Total						
50151	23	13(7/6)	69.2	9	3	6	9	0	0	0	0	0
50152	22	16(11/5)	93.8	15	8	7	15	0	0	0	0	0
50153	23	13(7/6)	100.0	13	6	7	13	0	0	0	0	0
50155	22	14(10/4)	92.9	13	10	3	13	0	0	0	0	0
50156	22	15(8/7)	93.3	14	8	6	14	0	0	0	0	0
50157	22	14(11/3)	100.0	14	7	7	14	0	0	0	0	0
50159	23	14(6/8)	92.9	13	10	3	13	0	0	0	0	0
50160	23	15(10/5)	80.0	12	1	10	11	1	0	0	0	1
50161	22	16(9/7)	93.8	15	9	6	15	0	0	0	0	0
50162	22	15(11/4)	80.0	12	6	6	12	0	0	0	0	0
n	10	10	10	10	10	10	10	10	10	10	10	10
Mean	22.40	14.5	89.59	13.0	6.8	6.1	12.9	0.1	0.0	0.0	0.1	0.3
S.D.	0.52	1.1	9.93	1.8	2.9	2.0	1.9	0.3	0.0	0.0	0.0	0.3

(//) : Right/Left, M : Male, F : Female, U : Unable to be sexed

Dam No.	Delivery data			Generation : F0			Dose : Isononane 60 mg/kg			Number of dead newborns			Species : Rat			
	Gestation length (day)	Number of implantation	Delivery index (%)	Number of offspring			Number of live newborns			M	F	Total	M	F	U	Total
				M	F	Total	M	F	Total							
50251	22	14(9/5)	100.0	14	9	5	14	0	0	0	0	0	0	0	0	0
50252	23	16(8/8)	100.0	16	10	6	16	0	0	0	0	0	0	0	0	0
50253	23	14(6/8)	92.9	13	6	7	13	0	0	0	0	0	0	0	0	0
50254	23	13(8/5)	100.0	13	8	5	13	0	0	0	0	0	0	0	0	0
50255	22	15(10/5)	100.0	15	8	6	14	1	0	0	0	0	0	1	0	0
50256	22	13(7/6)	100.0	13	8	5	13	0	0	0	0	0	0	0	0	0
50257	22	15(8/7)	100.0	15	9	5	14	1	0	0	0	0	0	1	0	0
50258	23	15(8/7)	80.0	12	4	8	12	0	0	0	0	0	0	0	0	0
50259	22	16(7/9)	100.0	16	8	8	16	0	0	0	0	0	0	0	0	0
50260	23	15(6/9)	100.0	15	7	8	15	0	0	0	0	0	0	0	0	0
50261	22	15(10/5)	100.0	15	8	7	15	0	0	0	0	0	0	0	0	0
50262	23	3(3/0)	100.0	3	1	2	3	0	0	0	0	0	0	0	0	0
n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Mean	22.50	13.7	97.74	13.3	7.2	6.0	13.2	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2
S.D.	0.52	3.5	5.95	3.5	2.5	1.8	3.4	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4

(/) : Right/Left, M : Male, F : Female, U : Unable to be sexed

Dam No.	Delivery data			Generation : F0			Dose : Isononane 250 mg/kg			Number of dead newborns			Species : Rat			
	Gestation length (day)	Number of implantation	Delivery index (%)	Number of offspring			Number of live newborns			M	F	Total	M	F	U	Total
				M	F	Total	M	F	Total							
50351	22	16(7/9)	93.8	15	6	8	14	1	15	0	0	0	1	0	0	1
50352	22	13(8/5)	92.3	12	4	8	12	0	12	0	0	0	0	0	0	0
50353	23	17(9/8)	105.9	18	9	8	17	1	18	0	0	0	0	0	0	1
50354	23	18(10/8)	94.4	17	0	0	0	0	0	11	4	2	2	17	0	17
50356	22	15(5/10)	100.0	15	10	5	15	0	15	0	0	0	0	0	0	0
50357	22	15(11/4)	86.7	13	6	6	12	1	13	0	0	0	0	0	0	1
50358	22	19(9/10)	89.5	17	12	5	17	0	17	0	0	0	0	0	0	0
50359	23	12(5/7)	75.0	9	2	7	9	0	9	0	0	0	0	0	0	0
50361	22	15(8/7)	93.3	14	8	6	14	0	14	0	0	0	0	0	0	0
50362	22	12(7/5)	83.3	10	9	1	10	0	10	0	0	0	0	0	0	0
n	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Mean	22.30	15.2	91.42	14.0	6.6	5.4	12.0	1.4	12.0	0.4	0.4	0.2	0.2	2.0	2.0	2.0
S.D.	0.48	2.4	8.59	3.0	3.7	2.8	5.0	3.4	5.0	1.3	0.6	0.6	0.6	5.3	5.3	5.3

(//) : Right/Left, M : Male, F : Female, U : Unable to be sexed

Dam No.	Delivery data			Generation : F0			Dose : Isononane 1000 mg/kg			Number of dead newborns			Species : Rat		
	Gestation length (day)	Number of implantation	Delivery index (%)	Number of offspring			Number of live newborns			M			F		
				M	F	Total	M	F	Total	M	F	Total	M	F	Total
50451	23	15(8/7)	86.7	13	9	4	13	0	0	0	0	0	0	0	0
50452	23	15(7/8)	106.7	16	7	6	13	2	1	0	0	0	0	0	3
50453	22	14(5/9)	100.0	14	8	6	14	0	0	0	0	0	0	0	0
50454	23	14(5/9)	64.3	9	4	5	9	0	0	0	0	0	0	0	0
50455	22	14(8/6)	92.9	13	4	9	13	0	0	0	0	0	0	0	0
50456	22	16(10/6)	93.8	15	6	9	15	0	0	0	0	0	0	0	0
50457	23	12(7/5)	100.0	12	8	4	12	0	0	0	0	0	0	0	0
50458	22	14(9/5)	92.9	13	6	7	13	0	0	0	0	0	0	0	0
50459	23	13(6/7)	100.0	13	3	10	13	0	0	0	0	0	0	0	0
50460	22	14(9/5)	100.0	14	6	8	14	0	0	0	0	0	0	0	0
50461	23	17(8/9)	94.1	16	6	9	15	0	1	0	0	0	0	0	1
50462	22	17(7/10)	100.0	17	8	9	17	0	0	0	0	0	0	0	0
n	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Mean	22.50	14.6	94.28	13.8	6.3	7.2	13.4	0.2	0.2	0.0	0.3	0.0	0.3	0.0	0.3
S.D.	0.52	1.5	10.78	2.1	1.9	2.1	1.9	0.6	0.4	0.0	0.9	0.0	0.9	0.0	0.9

(/) : Right/Left, M : Male, F : Female, U : Unable to be sexed

Appendix 19 - 5

Study No. : SR19180

Postnatal Day : 0
Species : RatDelivery data (external examination of offspring)
Generation : F1
Unit : Number of anomalous offspring (Incidence %)
Dose : Isononane 0 mg/kg

Dam No.	Number of offspring examined	/Findings
50151	9	No anomaly
50152	15	No anomaly
50153	13	No anomaly
50155	13	No anomaly
50156	14	No anomaly
50157	14	No anomaly
50159	13	No anomaly
50160	11	No anomaly
50161	15	No anomaly
50162	12	No anomaly
Total	129	
n	10	
Mean		
S.D.		

Mean : Average of incidence (%)

Appendix 19 - 6

Study No. : SR19180

Postnatal Day : 0
Species : RatDelivery data (external examination of offspring)
Generation : F1
Unit : Number of anomalous offspring (Incidence %)
Dose : Isononane 60 mg/kg

Dam No.	Number of offspring examined	/Findings
50251	14	No anomaly
50252	16	No anomaly
50253	13	No anomaly
50254	13	No anomaly
50255	14	No anomaly
50256	13	No anomaly
50257	14	No anomaly
50258	12	No anomaly
50259	16	No anomaly
50260	15	No anomaly
50261	15	No anomaly
50262	3	No anomaly
Total	158	
n	12	
Mean		
S.D.		

Mean : Average of incidence (%)

Appendix 19 - 7

Study No. : SR19180

Postnatal Day : 0

Species : Rat

Delivery data (external examination of offspring)
Generation : F1
Number of offspring examined

Dam No.	Number of offspring examined	/Findings
50351	14	No anomaly
50352	12	No anomaly
50353	17	No anomaly
50356	15	No anomaly
50357	12	No anomaly
50358	17	No anomaly
50359	9	No anomaly
50361	14	No anomaly
50362	10	No anomaly
Total	120	
n	9	
Mean		
S.D.		

Mean : Average of incidence (%)

Delivery data (external examination of offspring)
Generation : F1
Number of offspring examined
Unit : Number of anomalous offspring (Incidence %)
Dose : Isononane 1000 mg/kg

Dam No.	Number of offspring examined	/Findings
50451	13	No anomaly
50452	13	No anomaly
50453	14	No anomaly
50454	9	No anomaly
50455	13	No anomaly
50456	15	No anomaly
50457	12	No anomaly
50458	13	No anomaly
50459	13	No anomaly
50460	14	No anomaly
50461	15	No anomaly
50462	17	No anomaly
Total	161	
n	12	
Mean		
S.D.		

Mean : Average of incidence (%)

Dam No.	Alive :	Number of offspring	Clinical sign of offspring			Dose : Isoniazide 0 mg/kg			Species : Rat		
			Generation : F1			Before culling (postnatal Day)			After culling (postnatal Day)		
			0	1	2	3	4	5	6	7	8
50151	Alive : Male	3	3	3	3	3	3	3	3	3	3
	Female	6	6	6	6	6	6	5	5	5	5
	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs										
50152	Alive : Male	8	8	8	8	8	8	4	4	4	4
	Female	7	7	7	7	7	4	4	4	4	4
	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs										
50153	Alive : Male	3/6	3/6	3/6	3/6	3/6	3/5	3/5	3/5	3/5	3/5
	No abnormality										
	Female	8	8	8	8	8	4	4	4	4	4
	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs										
50155	Alive : Male	6/7	6/7	6/7	6/7	6/7	6/7	4/4	4/4	4/4	4/4
	No abnormality										
	Female	10	10	10	10	10	5	5	5	5	5
	Dead	3	3	3	3	3	3	3	3	3	3
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs										
50156	Alive : Male	10/3	10/3	10/3	10/3	10/3	10/3	5/3	5/3	5/3	5/3
	No abnormality										
	Female	8	8	8	8	8	8	4	4	4	4
	Dead	6	6	6	6	6	6	4	4	4	4
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs										
50157	Alive : Male	8/6	8/6	8/6	8/6	8/6	8/6	4/4	4/4	4/4	4/4
	No abnormality										
	Female	7	7	7	7	7	7	4	4	4	4
	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs										
	No abnormality										
(//) : Number of offspring Male/Female/Uncle to be sexed		7/7	7/7	7/7	7/7	7/7	4/4	4/4	4/4	4/4	4/4

Dam No.	Alive :	Number of offspring	Clinical sign of offspring			Dose : Isoniazide 0 mg/kg			Dose : Isoniazide (postnatal Day)			/After culling (postnatal Day)			Species : Rat		
			Generation : F1			/Before culling (postnatal Day)			3			4			5		
50159			Male	10	10	10	10	10	5	5	5	5	5	5	5	5	5
			Female	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Dead :		Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
			Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
			Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
			Signs														
50160			No abnormality	10/3	10/3	10/3	10/3	10/3	5/3	5/3	5/3	5/3	5/3	5/3	5/3	5/3	5/3
			Male	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			Female	10	10	10	10	10	7	7	7	7	7	7	7	7	7
	Dead :		Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
			Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
			Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
			Signs														
50161			No abnormality	1/10	1/10	1/10	1/10	1/10	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7	1/7
			Male	9	9	9	9	9	4	4	4	4	4	4	4	4	4
			Female	6	6	6	6	6	4	4	4	4	4	4	4	4	4
	Dead :		Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
			Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
			Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
			Signs														
			No abnormality	9/6	9/6	9/6	9/6	9/6	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4
50162			Male	6	6	6	6	6	4	4	4	4	4	4	4	4	4
			Female	6	6	6	6	6	4	4	4	4	4	4	4	4	4
	Dead :		Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
			Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
			Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
			Signs														
			No abnormality	6/6	6/6	6/6	6/6	6/6	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4
			Male/Female/Unable to be sexed														

(//) : Number of offspring Male/Female/Unable to be sexed

Dam No.		Clinical sign of offspring				Dose : Isononane 0 mg/kg /After culling (postnatal Day)	Species : Rat
		Generation : F1		Number of offspring			
50151	Alive :	Male	Female	3	3	3	
	Dead :	Dead	Female	5	5	5	
		Unknown		0/0/0	0/0/0	0/0/0	
		Cannibalism		0/0/0	0/0/0	0/0/0	
		Signs		0/0/0	0/0/0	0/0/0	
		No abnormality		3/5	3/5	3/5	
50152	Alive :	Male	Female	4	4	4	
	Dead :	Dead	Female	4	4	4	
		Unknown		0/0/0	0/0/0	0/0/0	
		Cannibalism		0/0/0	0/0/0	0/0/0	
		Signs		0/0/0	0/0/0	0/0/0	
		No abnormality		4/4	4/4	4/4	
50153	Alive :	Male	Female	4	4	4	
	Dead :	Dead	Female	4	4	4	
		Unknown		0/0/0	0/0/0	0/0/0	
		Cannibalism		0/0/0	0/0/0	0/0/0	
		Signs		0/0/0	0/0/0	0/0/0	
		No abnormality		4/4	4/4	4/4	
50155	Alive :	Male	Female	5	5	5	
	Dead :	Dead	Female	3	3	3	
		Unknown		0/0/0	0/0/0	0/0/0	
		Cannibalism		0/0/0	0/0/0	0/0/0	
		Signs		0/0/0	0/0/0	0/0/0	
		No abnormality		5/3	5/3	5/3	
50156	Alive :	Male	Female	4	4	4	
	Dead :	Dead	Female	4	4	4	
		Unknown		0/0/0	0/0/0	0/0/0	
		Cannibalism		0/0/0	0/0/0	0/0/0	
		Signs		0/0/0	0/0/0	0/0/0	
		No abnormality		4/4	4/4	4/4	
50157	Alive :	Male	Female	4	4	4	
	Dead :	Dead	Female	4	4	4	
		Unknown		0/0/0	0/0/0	0/0/0	
		Cannibalism		0/0/0	0/0/0	0/0/0	
		Signs		0/0/0	0/0/0	0/0/0	
		No abnormality		4/4	4/4	4/4	

(/) : Number of offspring Male/Female/Unable to be sexed

Dam No.		Clinical sign of offspring				Dose : Isononane 0 mg/kg				Species : Rat
		Generation : F1		Number of offspring		/After culling (postnatal Day)		Dose : Isononane 0 mg/kg		
50159	Alive :	Male	Female	12	13	5	5	3	3	
	Dead :	Dead	0/0/0			0/0/0	0/0/0	0/0/0	0/0/0	
	Unknown	Unknown				0/0/0	0/0/0	0/0/0	0/0/0	
	Cannibalism	Cannibalism				0/0/0	0/0/0	0/0/0	0/0/0	
	Signs	Signs				0/0/0	0/0/0	0/0/0	0/0/0	
50160	Alive :	Male	No abnormality	5/3	5/3	1	1	1	1	
	Female					7	7	7	7	
	Dead :	Dead				0/0/0	0/0/0	0/0/0	0/0/0	
	Unknown	Unknown				0/0/0	0/0/0	0/0/0	0/0/0	
	Cannibalism	Cannibalism				0/0/0	0/0/0	0/0/0	0/0/0	
	Signs	Signs				0/0/0	0/0/0	0/0/0	0/0/0	
50161	Alive :	Male	No abnormality	1/7	1/7	1/7	1/7	1/7	1/7	
	Female					4	4	4	4	
	Dead :	Dead				0/0/0	0/0/0	0/0/0	0/0/0	
	Unknown	Unknown				0/0/0	0/0/0	0/0/0	0/0/0	
	Cannibalism	Cannibalism				0/0/0	0/0/0	0/0/0	0/0/0	
	Signs	Signs				0/0/0	0/0/0	0/0/0	0/0/0	
	No abnormality	No abnormality				0/0/0	0/0/0	0/0/0	0/0/0	
50162	Alive :	Male	No abnormality	4/4	4/4	4/4	4/4	4/4	4/4	
	Female					4	4	4	4	
	Dead :	Dead				0/0/0	0/0/0	0/0/0	0/0/0	
	Unknown	Unknown				0/0/0	0/0/0	0/0/0	0/0/0	
	Cannibalism	Cannibalism				0/0/0	0/0/0	0/0/0	0/0/0	
	Signs	Signs				0/0/0	0/0/0	0/0/0	0/0/0	
	No abnormality	No abnormality				0/0/0	0/0/0	0/0/0	0/0/0	

(//) : Number of offspring Male/Female/Unable to be sexed

Dam No.	Alive :	Clinical sign of offspring		Dose : Isoniazide 60 mg/kg						Species : Rat			
		Generation : F1		Before culling (postnatal Day)			After culling (postnatal Day)			9		10 - 11	
Number of offspring		0	1	2	3	4	5	6	7	8	9	4	4
50251	Alive : Male	9	9	9	9	9	4	4	4	4	4	4	4
	Female	5	5	5	5	5	4	4	4	4	4	4	4
Dead :	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
50252	Alive : Male	9/5	9/5	9/5	9/5	9/5	9/5	4/4	4/4	4/4	4/4	4/4	4/4
	Female	10	10	10	10	10	10	4	4	4	4	4	4
Dead :	Dead	6	6	6	6	6	6	4	4	4	4	4	4
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
50253	Alive : Male	10/6	10/6	10/6	10/6	10/6	10/6	4/4	4/4	4/4	4/4	4/4	4/4
	Female	6	6	6	6	6	6	4	4	4	4	4	4
Dead :	Dead	7	7	7	7	7	7	4	4	4	4	4	4
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
50254	Alive : Male	6/7	6/7	6/7	6/7	6/7	6/7	4/4	4/4	4/4	4/4	4/4	4/4
	Female	8	8	8	8	8	8	4	4	4	4	4	4
Dead :	Dead	5	5	5	5	5	5	4	4	4	4	4	4
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
50255	Alive : Male	8/5	8/5	8/5	8/5	8/5	8/5	4/4	4/4	4/4	4/4	4/4	4/4
	Female	8	8	8	8	8	8	4	4	4	4	4	4
Dead :	Dead	6	6	6	6	6	6	4	4	4	4	4	4
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
50256	Alive : Male	8/6	8/6	8/6	8/6	8/6	8/6	4/4	4/4	4/4	4/4	4/4	4/4
	Female	8	8	8	8	8	8	4	4	4	4	4	4
Dead :	Dead	5	5	5	5	5	5	4	4	4	4	4	4
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
	No abnormality												
(/)	(/) : Number of offspring Male/Female/Unclear to be sexed												

Dam No.	Alive :	Clinical sign of offspring		Dose : Isoniazide 60 mg/kg												Species : Rat
		Generation : F1		Before culling (postnatal Day)				After culling (postnatal Day)								
Number of offspring		0	1	2	3	4	5	6	7	8	9	10	11			
50257	Alive :	Male	9	9	9	9	9	4	4	4	4	4	4	4	4	4
	Female	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4
Dead :	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs															
50258	Alive :	Male	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	Female	8	8	8	8	8	8	4	4	4	4	4	4	4	4	4
Dead :	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs															
50259	Alive :	No abnormality	9/5	9/5	9/5	9/5	9/5	9/5	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4
	Male	8	8	8	8	8	8	8	4/8	4/8	4/8	4/8	4/8	4/8	4/8	4/8
Dead :	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs															
50260	Alive :	No abnormality	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8	8/8
	Male	7	7	7	7	7	7	7	4	4	4	4	4	4	4	4
Dead :	Female	8	8	8	8	8	8	8	4	4	4	4	4	4	4	4
	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs															
50261	Alive :	No abnormality	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8	7/8
	Male	8	8	8	8	8	8	8	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4
Dead :	Female	7	7	7	7	7	7	7	4	4	4	4	4	4	4	4
	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs															
50262	Alive :	No abnormality	8/7	8/7	8/7	8/7	8/7	8/7	8/7	4/4	4/4	4/4	4/4	4/4	4/4	4/4
	Male	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dead :	Female	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs															
	No abnormality	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2

(/) : Number of offspring Male/Female/Uncleable to be sexed

Dam No.	Clinical sign of offspring				Dose : Isononane 60 mg/kg		Species : Rat
	Generation : F1		Number of offspring	/After culling (postnatal Day)	12	13	
50251	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	
50252	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	
50253	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	
50254	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	
50255	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	
50256	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	

(/) : Number of offspring Male/Female/Unable to be sexed

Dam No.	Clinical sign of offspring				Dose : Isononane 60 mg/kg		Species : Rat
	Generation : F1		Number of offspring	/After culling (postnatal Day)	12	13	
50257	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	
50258	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	
50259	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	
50260	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	
50261	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	
50262	Alive :	Male			1	1	
	Female				2	2	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				1/2	1/2	

(/) : Number of offspring Male/Female/Unable to be sexed

Dam No.	Alive :	Clinical sign of offspring		Dose : Isoniazide 250 mg/kg						Species : Rat			
		Generation : F1		Before culling (postnatal Day)			After culling (postnatal Day)			8		9 - 11	
Number of offspring		0	1	2	3	4	5	6	7	8	9	10	11
50351	Alive : Male	6	6	6	6	6	4	4	4	4	4	4	4
	Female	8	8	8	8	8	4	4	4	4	4	4	4
Dead :	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
50352	Alive : Male	6/8	6/8	6/8	6/8	6/8	6/8	6/8	6/8	6/8	6/8	6/8	6/8
	Female	4	4	4	4	4	4	4	4	4	4	4	4
Dead :	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
50353	Alive : Male	4/8	4/8	4/8	4/8	4/8	4/8	4/8	4/8	4/8	4/8	4/8	4/8
	Female	9	9	9	9	9	9	9	9	9	9	9	9
Dead :	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
50356	Alive : Male	9/8	9/8	9/8	9/8	9/8	9/8	9/8	9/8	9/8	9/8	9/8	9/8
	Female	10	10	10	10	10	10	10	10	10	10	10	10
Dead :	Dead	5	5	5	5	5	5	5	5	5	5	5	5
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
50357	Alive : Male	10/5	10/5	10/5	10/5	10/5	10/5	10/5	10/5	10/5	10/5	10/5	10/5
	Female	6	6	6	6	6	6	6	6	6	6	6	6
Dead :	Dead	6	6	6	6	6	6	6	6	6	6	6	6
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
50358	Alive : Male	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6
	Female	12	12	12	12	12	12	12	12	12	12	12	12
Dead :	Dead	5	5	5	5	5	5	5	5	5	5	5	5
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
	No abnormality	12/5	12/5	12/5	12/5	12/5	12/5	12/5	12/5	12/5	12/5	12/5	12/5

(/) : Number of offspring Male/Female/Unclear to be sexed

Dam No.	Alive :	Number of offspring	Clinical sign of offspring			Dose : Isoniazide 250 mg/kg			Species : Rat		
			Generation : F1			/Before culling (postnatal Day)			/After culling (postnatal Day)		
			0	1	2	3	4	5	6	7	8
50359			Male	2	2	2	2	2	2	2	2
	Female			7	7	7	7	6	6	6	6
	Dead			0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown			0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism			0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs										
	No abnormality										
50361			Male	8	8	8	8	4	4	4	4
	Female			6	6	6	6	4	4	4	4
	Dead			0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown			0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism			0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs										
	No abnormality										
50362			Male	8/6	8/6	8/6	8/6	4/4	4/4	4/4	4/4
	Female			9	9	9	9	7	7	7	7
	Dead			1	1	1	1	1	1	1	1
	Unknown			0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism			0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs			0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	No abnormality										
	(/) : Number of offspring Male/Female/Unable to be sexed			9/1	9/1	9/1	9/1	7/1	7/1	7/1	7/1

Dam No.	Clinical sign of offspring				Dose : Isononane 250 mg/kg		Species : Rat
	Generation : F1		Number of offspring	/After culling (postnatal Day)	12	13	
50351	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	
50352	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	
50353	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	
50356	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	
50357	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	
50358	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	

(/) : Number of offspring Male/Female/Unable to be sexed

Dam No.	Alive :	Clinical sign of offspring			Dose : Isononane 250 mg/kg			Species : Rat
		Number of offspring	Generation : F1	/After culling (postnatal Day)	12	13		
50359	Alive :	Male		2	2			
		Female		6	6			
	Dead :	Dead	0/0/0	0/0/0	0/0/0			
		Unknown	0/0/0	0/0/0	0/0/0			
		Cannibalism	0/0/0	0/0/0	0/0/0			
		Signs						
		No abnormality	2/6	2/6				
50361	Alive :	Male		4	4			
		Female		4	4			
	Dead :	Dead	0/0/0	0/0/0	0/0/0			
		Unknown	0/0/0	0/0/0	0/0/0			
		Cannibalism	0/0/0	0/0/0	0/0/0			
		Signs						
		No abnormality	4/4	4/4				
50362	Alive :	Male		7	7			
		Female		1	1			
	Dead :	Dead	0/0/0	0/0/0	0/0/0			
		Unknown	0/0/0	0/0/0	0/0/0			
		Cannibalism	0/0/0	0/0/0	0/0/0			
		Signs						
		No abnormality	7/1	7/1				
(/) : Number of offspring Male/Female/Unable to be sexed								

Dam No.	Alive :	Clinical sign of offspring		Dose : Isoniazide 1000 mg/kg								Species : Rat	
		Generation : F1		Before culling (postnatal Day)				After culling (postnatal Day)					
Number of offspring		0	1	2	3	4	5	6	7	8	9	10	11
50451	Alive : Male	9	9	9	9	9	4	4	4	4	4	4	4
	Female	4	4	4	4	4	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Dead : Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
50452	Alive : Male	9/4	9/4	9/4	9/4	9/4	9/4	9/4	9/4	9/4	9/4	9/4	9/4
	Female	7	7	7	7	7	7	7	4	4	4	4	4
	Dead : Dead	6	6	6	6	6	6	6	4	4	4	4	4
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
50453	Alive : Male	No abnormality	7/6	7/6	7/6	7/6	7/6	7/6	4/4	4/4	4/4	4/4	4/4
	Female	8	3	2	2	2	2	2	2	2	2	2	2
	Dead : Dead	6	1	0	0	0	0	0	0	0	0	0	0
	Unknown	0/0/0	3/2/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	1/3/0	1/1/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
50454	Alive : Male	No abnormality	8/6	3/1	2/0	2/0	2/0	2/0	2/0	2/0	2/0	2/0	2/0
	Female	4	4	4	4	4	4	4	4	4	4	4	4
	Dead : Dead	5	5	5	5	5	5	4	4	4	4	4	4
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
50455	Alive : Male	No abnormality	4/5	4/5	4/5	4/5	4/5	4/5	4/4	4/4	4/4	4/4	4/4
	Female	4	4	4	4	4	4	4	4	4	4	4	4
	Dead : Dead	9	9	9	9	9	9	4	4	4	4	4	4
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
50456	Alive : Male	No abnormality	4/9	4/9	4/9	4/9	4/9	4/9	4/4	4/4	4/4	4/4	4/4
	Female	6	6	6	6	6	6	6	4	4	4	4	4
	Dead : Dead	9	9	9	9	9	9	8	4	4	4	4	4
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Cannibalism	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Signs												
	No abnormality	6/9	6/9	6/9	6/9	6/9	6/9	6/8	4/4	4/4	4/4	4/4	4/4

(/) : Number of offspring Male/Female/Unclear to be sexed

Dam No.		Clinical sign of offspring		Dose : Isoniazine 1000 mg/kg								Species : Rat	
		Generation : F1		Before culling (postnatal Day)				After culling (postnatal Day)					
		0	1	2	3	4	5	6	7	8	9	10	11
50457	Alive :	Male	8	8	8	8	8	4	4	4	4	4	4
	Female	4	4	4	4	4	4	4	4	4	4	4	4
Dead :	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
Cannibalism		0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
Signs													
50458	Alive :	Male	8/4	8/4	8/4	8/4	8/4	8/4	8/4	8/4	8/4	8/4	8/4
	Female	6	6	6	6	6	5	5	4	4	4	4	4
Dead :	Dead	7	7	7	7	7	7	4	4	4	4	4	4
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
Cannibalism		0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
Signs													
50459	Alive :	No abnormality	6/7	6/7	6/7	6/7	6/7	5/7	4/4	4/4	4/4	4/4	4/4
	Male	3	3	3	3	3	3	3	3	3	3	3	3
	Female	10	10	10	10	10	10	5	5	5	5	5	5
Dead :	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
Cannibalism		0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
Signs													
50460	Alive :	No abnormality	3/10	3/10	3/10	3/10	3/10	3/10	3/5	3/5	3/5	3/5	3/5
	Male	6	6	6	6	6	6	4	4	4	4	4	4
	Female	8	8	8	8	8	8	4	4	4	4	4	4
Dead :	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
Cannibalism		0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
Signs													
50461	Alive :	No abnormality	6/8	6/8	6/8	6/8	6/8	6/8	4/4	4/4	4/4	4/4	4/4
	Male	6 *	5 *	4 *	0	0	...	...	...	...	...	...	...
	Female	9 *	9 *	7 *	0	0	...	...	...	...	...	...	...
Dead :	Dead	0/0/0	1/0/0	1/2/0	4/7/0	...	...	...	...	...	...	...	...
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	...	...	...	...	...	...	...
Cannibalism		0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	...	...	...	...	...	...	...
Signs													
50462	Alive :	Milk-band negative	6/9	4/6	0/0	0/0	0/0	...	...	...	...	...	...
	Male	8/0	8/1/3	4/7	0/0	0/0	...	...	...	...	...	...	...
	Female	9	9	9	9	9	8	8	4	4	4	4	4
Dead :	Dead	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
	Unknown	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
Cannibalism		0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0	0/0/0
Signs													
50461	Alive :	No abnormality	8/9	8/9	8/9	8/9	8/9	8/9	4/4	4/4	4/4	4/4	4/4
	Male/Female/Unable to be sexed												
Animal No. 50461													
*													
... : Blank													

(/) : Number of offspring Male/Female/Unable to be sexed

* : Animal No. 50461 : Euthanized on lactation Day 3 because of moribund condition

... : No maternal behavior of gathering offspring was observed.

... : Blank

Dam No.	Clinical sign of offspring				Dose : Isononane 1000 mg/kg		Species : Rat
	Generation : F1		Number of offspring	/After culling (postnatal Day)	12	13	
50451	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
50452	Alive :	Male			4/4	4/4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
50453	Alive :	Male			4/4	4/4	
	Female				2	2	
	Dead :	Dead			0	0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
50454	Alive :	Male			2/0	2/0	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
50455	Alive :	Male			4/4	4/4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
50456	Alive :	Male			4/4	4/4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				4/4	4/4	

(/) : Number of offspring Male/Female/Unable to be sexed

Dam No.	Clinical sign of offspring				Dose : Isononane 1000 mg/kg		Species : Rat
	Generation : F1		Number of offspring	/After culling (postnatal Day)	12	13	
50457	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
50458	Alive :	Male			4/4	4/4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
50459	Alive :	Male			4/4	4/4	
	Female				3	3	
	Dead :	Dead			5	5	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
50460	Alive :	Male			3/5	3/5	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
50461	Alive :	Male			4/4	4/4	
	Female				...	...
	Dead :	Dead			...	...
	Unknown				...	...
	Cannibalism				...	...
	Signs				...	...
	No abnormality				...	...
	Milk-band negative				...	...
50462	Alive :	Male			4	4	
	Female				4	4	
	Dead :	Dead			0/0/0	0/0/0	
	Unknown				0/0/0	0/0/0	
	Cannibalism				0/0/0	0/0/0	
	Signs				0/0/0	0/0/0	
	No abnormality				0/0/0	0/0/0	
	...				0/0/0	0/0/0	

(/) : Number of offspring Male/Female/Unable to be sexed
 Animal No. 50461 : Euthanized on lactation Day 3 because of moribund condition

... : Blank

Litter size and viability index of offspring

Species : Rat

Generation : F1										Dose : Isononane 0 mg/kg				Species : Rat		
Dam No.	Sex	Postnatal Day			0			0			4			4		
		All pups	Male/Female	Live pups	Male/Female	Viability index (%)	Male/Female	Live pups	Male/Female	Viability index (%)	Male/Female	Post-culled	Male/Female	Live pups	Male/Female	Viability index (%)
50151	Total	9	(3/6)	9	(3/6)	100.0	Male/Female	9	100.0	Male/Female	9	100.0	Male/Female	8	100.0	Male/Female
50152	Total	15	(8/7)	15	(8/7)	100.0	Male/Female	15	100.0	Male/Female	15	100.0	Male/Female	8	100.0	Male/Female
50153	Total	13	(6/7)	13	(6/7)	100.0	Male/Female	13	100.0	Male/Female	13	100.0	Male/Female	8	100.0	Male/Female
50155	Total	13	(10/3)	13	(10/3)	100.0	Male/Female	13	100.0	Male/Female	13	100.0	Male/Female	8	100.0	Male/Female
50156	Total	14	(8/6)	14	(8/6)	100.0	Male/Female	14	100.0	Male/Female	14	100.0	Male/Female	8	100.0	Male/Female
50157	Total	14	(7/7)	14	(7/7)	100.0	Male/Female	14	100.0	Male/Female	14	100.0	Male/Female	8	100.0	Male/Female
50159	Total	13	(10/3)	13	(10/3)	100.0	Male/Female	13	100.0	Male/Female	13	100.0	Male/Female	8	100.0	Male/Female
50160	Total	12	(2/10)	11	(1/10)	91.7	Male/Female	11	100.0	Male/Female	11	100.0	Male/Female	8	100.0	Male/Female
50161	Total	15	(9/6)	15	(9/6)	100.0	Male/Female	15	100.0	Male/Female	15	100.0	Male/Female	8	100.0	Male/Female
50162	Total	12	(6/6)	12	(6/6)	100.0	Male/Female	12	100.0	Male/Female	12	100.0	Male/Female	8	100.0	Male/Female
Total		130	68/61	129	68/61	129	Male/Female	129	129	Male/Female	129	129	Male/Female	80	80	Male/Female
n		10	10	10	10	10	Mean	10	10	Mean	10	10	Mean	10	10	Mean
Mean							S.D.							100.00	100.00	
S.D.														0.00	0.00	

Litter size and viability index of offspring

Generation : F1

Dam No.	Sex	/Postnatal Day				Dose : Isononane 60 mg/kg				Species : Rat	
		0		0		4		4			
		All pups	Male/Female	Live pups	Male/Female	Viability index (%)	Live pups	Male/Female	Viability index (%)		
50251	Total	14	(9/5)	14	(9/5)	100.0	(9/5)	14	100.0	(4/4)	
50252	Total	16	(10/6)	16	(10/6)	100.0	(10/6)	16	100.0	(4/4)	
50253	Total	13	(6/7)	13	(6/7)	100.0	(6/7)	13	100.0	(4/4)	
50254	Total	13	(8/5)	13	(8/5)	100.0	(8/5)	13	100.0	(4/4)	
50255	Total	15	(9/6)	14	(8/6)	93.3	(8/6)	14	100.0	(4/4)	
50256	Total	13	(8/5)	13	(8/5)	100.0	(8/5)	13	100.0	(4/4)	
50257	Total	15	(10/5)	14	(9/5)	93.3	(9/5)	14	100.0	(4/4)	
50258	Total	12	(4/8)	12	(4/8)	100.0	(4/8)	12	100.0	(4/4)	
50259	Total	16	(8/8)	16	(8/8)	100.0	(8/8)	16	100.0	(4/4)	
50260	Total	15	(7/8)	15	(7/8)	100.0	(7/8)	15	100.0	(4/4)	
50261	Total	15	(8/7)	15	(8/7)	100.0	(8/7)	15	100.0	(4/4)	
50262	Total	3	(1/2)	3	(1/2)	100.0	(1/2)	3	100.0	(1/2)	
	Total	160	158		158			91	91		
	Male/Female	88/72	86/72		86/72			45/46	45/46		
	n	12	12		12			12	12		
	Mean				98.88				100.00		
	S.D.				2.61			0.00	0.00		

Litter size and viability index of offspring

Generation : F1

Dam No.	Sex	/Postnatal Day				Dose : Isononane 250 mg/kg				Species : Rat	
		0		0		4		4			
		All pups	Male/Female	Live pups	Male/Female	Live pups	Male/Female	Post-culled	Male/Female		
50351	Total	15	14	93.3	14	100.0	14	100.0	8	100.0	
50352	Total	(7/8)	(6/8)	100.0	(6/8)	100.0	(6/8)	(4/4)	(4/4)	100.0	
50353	Total	12	12	100.0	12	100.0	12	100.0	8	100.0	
50354	Total	(4/8)	(4/8)	94.4	(4/8)	100.0	(4/8)	(4/4)	(4/4)	100.0	
50355	Total	18	17	94.4	17	100.0	17	100.0	8	100.0	
50356	Total	(10/8)	(9/8)	0.0	(9/8)	...	(4/4)	(4/4)	(4/4)	...	
50357	Total	17	0	0.0	...	...	...	...	...	...
50358	Total	(11/6*)	(0/0)	100.0	15	100.0	15	100.0	8	100.0	
50359	Total	15	15	100.0	(10/5)	100.0	(10/5)	(4/4)	(4/4)	100.0	
50361	Total	13	12	92.3	12	100.0	12	100.0	8	100.0	
50362	Total	(7/6)	(6/6)	92.3	(6/6)	100.0	(6/6)	(4/4)	(4/4)	100.0	
50362	Total	17	17	100.0	17	100.0	17	100.0	8	100.0	
50362	Total	(12/5)	(12/5)	100.0	(12/5)	100.0	(12/5)	(4/4)	(4/4)	100.0	
50362	Total	9	9	100.0	9	100.0	9	100.0	8	100.0	
50362	Total	(2/7)	(2/7)	100.0	(2/7)	100.0	(2/7)	(2/6)	(2/6)	100.0	
50362	Total	14	14	100.0	14	100.0	14	100.0	8	100.0	
50362	Total	(8/6)	(8/6)	100.0	(8/6)	100.0	(8/6)	(4/4)	(4/4)	100.0	
50362	Total	10	10	100.0	10	100.0	10	100.0	8	100.0	
50362	Total	(9/1)	(9/1)	100.0	(9/1)	100.0	(9/1)	(7/1)	(7/1)	100.0	
Total	Male/Female	140	120	100.0	120	100.0	120	100.0	72	100.0	
	n	80/60*	66/54	10	10	9	9	9	37/35	100.0	
	Mean				88.00	9	100.00	9	37/35	100.0	
	S.D.				31.08	0.00	0.00	0.00	0.00	0.00	

* : Including 2 offspring which were unable to be sexed.
... : Blank

Litter size and viability index of offspring

Generation : F1

Dam No.	Sex	/Postnatal Day				Dose : Isononane 1000 mg/kg				Species : Rat	
		0		0		4		4			
		All pups	Male/Female	Live pups	Male/Female	Live pups	Male/Female	Post-culled	Male/Female		
50451	Total	13	(9/4)	13	100.0	13	100.0	8	8	100.0	
50452	Total	16	(9/7)	13	81.3	13	100.0	(4/4)	(4/4)	100.0	
50453	Total	14	(7/6)	14	100.0	2	14.3	(4/4)	(4/4)	100.0	
50454	Total	9	(8/6)	9	100.0	20	100.0	(2/0)	(2/0)	100.0	
50455	Total	13	(4/5)	13	100.0	9	100.0	8	8	100.0	
50456	Total	15	(4/9)	15	100.0	(4/5)	100.0	(4/4)	(4/4)	100.0	
50457	Total	12	(6/9)	12	100.0	13	100.0	8	8	100.0	
50458	Total	13	(8/4)	13	100.0	(4/9)	100.0	(4/4)	(4/4)	100.0	
50459	Total	13	(6/7)	13	100.0	(5/7)	93.3	8	8	100.0	
50460	Total	14	(3/10)	14	100.0	(3/10)	100.0	(4/4)	(4/4)	100.0	
50461	Total	16	(6/8)	15	93.8	...	...	...	...	...
50462	Total	17	(6/10)	17	100.0	16	94.1	8	8	100.0	
	Total	165	(8/9)	161	(8/9)	131	82	(4/4)	(4/4)		
	Male/Female	77/88	75/86	12	12	62/69	41/41	41/41	41/41		
	n	12	12	97.93	11	11	11	11	11		
	Mean			5.53		90.36				100.00	
	S.D.					25.42				0.00	

... : Blank

Dam No.	Sex	Body weight of offspring /Postnatal Day				Dose : Isononane 0 mg/kg				Unit : g	Species : Rat		
		0		4		7		13					
		n	B.W.	n	B.W.	n	B.W.	n	B.W.				
50151	Male	3	9.03	3	16.03	3	24.03	3	41.00				
	Female	6	8.35	6	15.37	5	23.06	5	39.40				
50152	Male	8	6.69	8	10.86	4	18.88	4	35.45				
	Female	7	6.10	7	9.61	4	17.50	4	33.10				
50153	Male	6	7.48	6	12.97	4	21.78	4	39.08				
	Female	7	7.41	7	12.69	4	21.25	4	38.53				
50155	Male	10	6.70	10	11.30	5	21.60	5	40.78				
	Female	3	6.47	3	11.13	3	19.57	3	37.70				
50156	Male	8	7.10	8	10.93	4	19.83	4	38.00				
	Female	6	6.82	6	10.65	4	18.70	4	35.95				
50157	Male	7	6.87	7	11.60	4	19.73	4	37.35				
	Female	7	6.51	7	11.06	4	18.63	4	36.25				
50159	Male	10	7.30	10	11.34	5	19.82	5	35.90				
	Female	3	7.27	3	11.80	3	19.93	3	36.30				
50160	Male	1	7.90	1	13.10	1	21.30	1	37.40				
	Female	10	7.56	10	12.40	7	20.01	7	36.43				
50161	Male	9	6.61	9	10.93	4	19.33	4	36.60				
	Female	6	6.20	6	10.05	4	17.50	4	33.38				
50162	Male	6	6.85	6	11.35	4	18.75	4	34.08				
	Female	6	6.33	6	10.42	4	17.15	4	31.85				
n	Male	68	68	61	38	42	38	38					
	Female	61	61	12.041									
Mean	Male	7.253								37.564			
S.D.	Female	6.902		11.518						35.889			
	Male	0.745		1.615						2.236			
	Female	0.725		1.673						2.440			

Dam No.	Sex	Generation : F1 /Postnatal Day				Dose : Isononane 60 mg/kg				Species : Rat	
		0		4		7		13			
		n	B.W.	n	B.W.	n	B.W.	n	B.W.		
50251	Male	9	6.76	9	11.29	4	19.35	4	35.35		
	Female	5	6.68	5	10.88	4	19.40	4	35.18		
50252	Male	10	7.63	10	11.52	4	19.98	4	36.45		
	Female	6	7.40	6	11.30	4	18.55	4	34.73		
50253	Male	6	8.27	6	13.65	4	21.53	4	38.73		
	Female	7	7.74	7	12.97	4	20.95	4	37.03		
50254	Male	8	7.73	8	11.58	4	19.55	4	38.05		
	Female	5	7.30	5	11.02	4	18.33	4	36.78		
50255	Male	8	6.05	8	9.46	4	16.43	4	31.40		
	Female	6	5.92	6	8.90	4	15.40	4	29.88		
50256	Male	8	6.94	8	11.41	4	19.88	4	37.20		
	Female	5	6.70	5	10.90	4	19.63	4	35.98		
50257	Male	9	6.78	9	10.17	4	16.45	4	33.23		
	Female	5	6.50	5	10.44	4	16.65	4	33.00		
50258	Male	4	7.48	4	12.33	4	19.50	4	35.63		
	Female	8	7.03	8	11.29	4	17.25	4	33.55		
50259	Male	8	6.04	8	9.24	4	17.68	4	33.80		
	Female	8	5.81	8	8.69	4	16.88	4	32.30		
50260	Male	7	7.01	7	11.37	4	19.15	4	36.08		
	Female	8	6.88	8	10.94	4	18.65	4	35.28		
50261	Male	8	6.98	8	11.50	4	19.68	4	38.65		
	Female	7	5.91	7	9.76	4	17.45	4	35.10		
50262	Male	1	8.70	1	15.90	1	21.00	1	33.60		
	Female	2	8.10	2	13.00	2	17.90	2	27.45		
n	Male	86	86	86	45	45	45	46			
	Female	72	72	46	19.182						
Mean	Male		7.198						35.681		
	Female		6.831						33.855		
S.D.	Male		0.805						2.318		
	Female		0.732						2.850		

Dam No.	Sex	Body weight of offspring Generation : F1 /Postnatal Day				Dose : Isononane 250 mg/kg				Unit : g	Species : Rat
		0 n	B.W.	4 n	B.W.	7 n	B.W.	13 n	B.W.		
50351	Male	6	6.55	6	11.23	4	19.50	4	37.63		
	Female	8	6.43	8	10.83	4	19.78	4	38.30		
50352	Male	4	6.88	4	12.08	4	19.60	4	36.40		
	Female	8	6.46	8	11.74	4	20.15	4	37.30		
50353	Male	9	7.14	9	10.47	4	17.88	4	34.85		
	Female	8	6.98	8	10.03	4	17.33	4	32.75		
50356	Male	10	7.02	10	11.25	4	19.88	4	38.35		
	Female	5	6.98	5	11.04	4	19.48	4	37.35		
50357	Male	6	6.75	6	11.40	4	20.45	4	36.83		
	Female	6	6.03	6	10.27	4	17.33	4	32.35		
50358	Male	12	6.29	12	9.54	4	17.25	4	34.13		
	Female	5	5.98	5	8.92	4	16.73	4	32.70		
50359	Male	2	8.75	2	15.95	2	23.50	2	39.10		
	Female	7	8.61	7	14.71	6	22.75	6	38.05		
50361	Male	8	6.74	8	11.19	4	19.05	4	38.68		
	Female	6	6.37	6	10.77	4	17.68	4	35.80		
50362	Male	9	6.41	9	11.42	7	18.70	7	34.39		
	Female	1	6.20	1	10.80	1	18.80	1	34.40		
n											
Mean	Male	66	66	37	37						
	Female	54	54	35	35						
S.D.	Male	6.948	11.614	19.534	36.707						
	Female	6.671	11.012	18.892	35.444						
	Male	0.729	1.774	1.788	1.895						
	Female	0.810	1.590	1.892	2.439						

Body weight of offspring
Generation : F1
/Postnatal Day

Dam No.	Sex	Dose : Isononane 1000 mg/kg				Unit : g	Species : Rat
		0 n B.W.	4 n B.W.	7 n B.W.	13 n B.W.		
50451	Male	9 6.87	9 11.11	4 18.93	4 34.03	41.43	30.93
	Female	4 6.33	4 9.63	4 16.58	4 32.35		
50452	Male	7 7.20	7 10.36	4 17.10	4 29.48	38.75	26.55
	Female	6 6.75	6 9.57	4 14.98	4 26.55		
50453	Male	8 5.95	2 7.70	2 12.40	2 0	0	41.43
	Female	6 5.30	0 0	0 0	0 0		
50454	Male	4 9.00	4 15.90	4 24.45	4 41.43	42.10	29.10
	Female	5 8.04	5 14.46	4 22.08	4 38.75		
50455	Male	4 6.35	4 8.88	4 14.78	4 42.35	4 4	29.28
	Female	9 5.94	9 8.38	4 14.50	4 42.35		
50456	Male	6 5.50	6 7.42	4 12.10	4 42.63	4 4	24.63
	Female	9 5.20	8 7.38	4 12.05	4 43.18		
50457	Male	8 7.40	8 11.69	4 18.90	4 32.25	4 4	24.35
	Female	4 6.78	4 11.03	4 17.65	4 32.25		
50458	Male	6 6.47	5 10.62	4 17.05	4 31.58	4 4	29.25
	Female	7 6.24	7 9.97	4 15.43	4 33.63		
50459	Male	3 7.07	3 11.37	3 19.50	3 33.18	3 5	31.50
	Female	10 6.79	10 10.81	5 19.04	5 31.25		
50460	Male	6 6.58	6 9.77	4 16.73	4 31.25	4 4	29.25
	Female	8 6.20	8 9.34	4 15.88	4 31.50		
50461	Male	6 6.28	... ...	... ...	... ...	4 4	33.18
	Female	9 5.81	... ...	... ...	... ...
50462	Male	8 6.63	8 9.91	4 17.58	4 34.43	4 4	32.60
	Female	9 6.12	8 8.89	4 16.53	4 32.60		
n	Male	75	62	41	41		
	Female	86	69	41	41		
Mean	Male	6.775	10.430	17.229	32.103		
	Female	6.292	9.946	16.472	31.160		
S.D.	Male	0.879	2.292	3.450	4.510		
	Female	0.758	1.917	2.719	3.616		

Animal No. 50461 : Euthanized on lactation Day 3 because of moribund condition

... : Blank

Anogenital distance of offspring

Generation : F1

Sex /Postnatal Day

n

Anogenital distance of offspring
Dose : Isononane 0 mg/kgUnit : mm
Species : Rat

Dam No.		n	AGD	AGD/3/ \sqrt{BW}
50151	Male	3	6.637	2.633
	Female	6	3.503	1.410
50152	Male	8	5.545	2.504
	Female	7	2.717	1.279
50153	Male	6	5.923	2.523
	Female	7	2.786	1.196
50155	Male	10	5.896	2.637
	Female	3	2.713	1.217
50156	Male	8	5.236	2.360
	Female	6	2.582	1.175
50157	Male	7	6.014	2.660
	Female	7	2.836	1.274
50159	Male	10	6.317	2.813
	Female	3	3.050	1.343
50160	Male	1	6.850	2.910
	Female	10	3.014	1.304
50161	Male	9	5.312	2.393
	Female	6	2.690	1.247
50162	Male	6	5.398	2.402
	Female	6	2.632	1.203
n	Male	68		
	Female	61		
Mean	Male		5.9128	2.5835
	Female		2.8523	1.2648
S.D.	Male		0.5574	0.1825
	Female		0.2747	0.0732

AGD : Anogenital Distance

Anogenital distance of offspring

Generation : F1

Sex /Postnatal Day

4

Dose : Isononane 60 mg/kg

Unit : mm

Species : Rat

Dam No.		n	AGD	AGD/3 \sqrt{BW}
50251	Male	9	6.000	2.677
	Female	5	2.736	1.234
50252	Male	10	5.853	2.597
	Female	6	2.697	1.203
50253	Male	6	6.235	2.608
	Female	7	3.197	1.361
50254	Male	8	5.755	2.546
	Female	5	2.654	1.194
50255	Male	8	5.349	2.530
	Female	6	2.457	1.187
50256	Male	8	5.701	2.533
	Female	5	2.834	1.276
50257	Male	9	5.671	2.621
	Female	5	2.744	1.254
50258	Male	4	6.285	2.720
	Female	8	3.014	1.343
50259	Male	8	5.588	2.666
	Female	8	2.620	1.275
50260	Male	7	5.839	2.597
	Female	8	2.708	1.220
50261	Male	8	5.918	2.625
	Female	7	2.686	1.260
50262	Male	1	6.950	2.760
	Female	2	3.305	1.410
n	Male	86		
	Female	72		
Mean	Male		5.9287	2.6233
	Female		2.8043	1.2681
S.D.	Male		0.4138	0.0721
	Female		0.2468	0.0704

AGD : Anogenital Distance

Anogenital distance of offspring

Generation : F1

Dam No.	Sex	Anogenital distance of offspring		Dose : Isononane 250 mg/kg	Unit : mm	Species : Rat
		n	AGD /Postnatal Day 4			
50351	Male	6	5.505	2.460		
	Female	8	2.691	1.218		
50352	Male	4	6.080	2.655		
	Female	8	2.606	1.149		
50353	Male	9	5.990	2.742		
	Female	8	2.821	1.309		
50356	Male	10	5.755	2.571		
	Female	5	2.842	1.278		
50357	Male	6	5.477	2.435		
	Female	6	2.652	1.222		
50358	Male	12	5.836	2.752		
	Female	5	2.734	1.320		
50359	Male	2	6.820	2.705		
	Female	7	2.969	1.209		
50361	Male	8	5.781	2.586		
	Female	6	2.997	1.357		
50362	Male	9	5.864	2.604		
	Female	1	2.840	1.280		
n						
Mean	Male	66				
	Female	54				
S.D.	Male		5.9009	2.6122		
	Female		2.7947	1.2602		
	Male		0.3972	0.1139		
	Female		0.1354	0.0654		

AGD : Anogenital Distance

Anogenital distance q

Generation : F1

Anogenital distance of offspring

/Postnatal Day

Dose : Isononane 1000 mg/kg

Dam No.	Sex	n	AGD	AGD \sqrt{BW}
50451	Male	9	5.982	2.679
	Female	4	2.825	1.330
50452	Male	7	5.811	2.669
	Female	6	2.697	1.270
50453	Male	2	5.115	2.590
	Female	0		
50454	Male	4	7.318	2.913
	Female	5	3.008	1.236
50455	Male	4	5.535	2.673
	Female	9	2.643	1.303
50456	Male	6	5.448	2.795
	Female	8	2.581	1.329
50457	Male	8	5.696	2.511
	Female	4	2.670	1.198
50458	Male	5	5.606	2.550
	Female	7	2.759	1.281
50459	Male	3	6.097	2.717
	Female	10	2.780	1.258
50460	Male	6	5.837	2.732
	Female	8	2.706	1.285
50462	Male	8	5.938	2.764
	Female	8	2.644	1.279
n	Male	62		
Mean	Female	69		
S.D.	Male			
	Female			

AGD : Anogenital Distance

Dam No.	Sex	Nipple retention of male pups		Dose : Isononane 0 mg/kg		Postnatal Day : 13	
		Generation : F1	Number of nipples			Unit : No.	Species : Rat
50151	Male	0	0	0	0	0	0.00
50152	Male	0	0	0	0	0	0.00
50153	Male	0	0	0	0	0	0.00
50155	Male	0	0	0	0	0	0.00
50156	Male	0	0	0	0	0	0.00
50157	Male	0	0	0	0	0	0.00
50159	Male	0	0	0	0	0	0.00
50160	Male	0	0	0	0	0	0.00
50161	Male	0	0	0	0	0	0.00
50162	Male	0	0	0	0	0	0.00

Dam No.	Sex	Nipple retention of male pups		Dose : Isononane 60 mg/kg		Unit : No.	Postnatal Day : 13 Species : Rat Mean	S.D.	n
		Generation : F1	Number of nipples						
50251	Male	0	0	0	0	0	0.00	0.00	4
50252	Male	0	0	0	0	0	0.00	0.00	4
50253	Male	0	0	0	0	0	0.00	0.00	4
50254	Male	0	0	0	0	0	0.00	0.00	4
50255	Male	0	0	0	0	0	0.00	0.00	4
50256	Male	0	0	0	0	0	0.00	0.00	4
50257	Male	0	0	0	0	0	0.00	0.00	4
50258	Male	0	0	0	0	0	0.00	0.00	4
50259	Male	0	0	0	0	0	0.00	0.00	4
50260	Male	0	0	0	0	0	0.00	0.00	4
50261	Male	0	0	0	0	0	0.00	0.00	4
50262	Male	0	0	0	0	0	0.00	0.00	1

Dam No.	Sex	Nipple retention of male pups		Dose : Isononane 250 mg/kg	Postnatal Day : 13	Unit : No.	Species : Rat	Mean	S.D.	n
		Generation : F1	Number of nipples							
50351	Male	0	0	0	0	0	0.00	0.00	0.00	4
50352	Male	0	0	0	0	0	0.00	0.00	0.00	4
50353	Male	0	0	0	0	0	0.00	0.00	0.00	4
50356	Male	0	0	0	0	0	0.00	0.00	0.00	4
50357	Male	0	0	0	0	0	0.00	0.00	0.00	4
50358	Male	0	0	0	0	0	0.00	0.00	0.00	4
50359	Male	0	0	0	0	0	0.00	0.00	0.00	2
50361	Male	0	0	0	0	0	0.00	0.00	0.00	4
50362	Male	0	0	0	0	0	0.00	0.00	0.00	7

Dam No.	Sex	Nipple retention of male pups		Dose : Isononane 1000 mg/kg	Postnatal Day : 13		
		Generation : F1	Number of nipples		Unit : No.	Species : Rat	n
50451	Male	0	0	0	0	0.00	4
50452	Male	0	0	0	0	0.00	4
50453	Male	0	0	0	0	0.00	2
50454	Male	0	0	0	0	0.00	4
50455	Male	0	0	0	0	0.00	4
50456	Male	0	0	0	0	0.00	4
50457	Male	0	0	0	0	0.00	4
50458	Male	0	0	0	0	0.00	4
50459	Male	0	0	0	0	0.00	3
50460	Male	0	0	0	0	0.00	4
50462	Male	0	0	0	0	0.00	4

Serum T4 concentration of offspring
Sex : Female
T4(PND13)

Stage : Postnatal Day 13
Dose : Isononane 0 mg/kg

Animal No.	ng/mL		
50151	39.8		
50152	49.3		
50153	60.6		
50155	54.8		
50156	60.8		
50157	52.9		
50159	61.6		
50160	49.4		
50161	53.1		
50162	53.3		
n	10		
Mean	53.56		
S.D.	6.61		

PND : Postnatal Day

Serum T4 concentration of offspring
Sex : Female
T4(PND13)

Stage : Postnatal Day 13
Dose : Isononane 60 mg/kg

Animal No.	ng/mL		
50251	35.7		
50252	54.8		
50253	50.6		
50254	51.0		
50255	58.4		
50256	59.7		
50257	51.8		
50258	53.7		
50259	59.6		
50260	53.3		
50261	45.1		
50262	54.4		
n	12		
Mean	52.34		
S.D.	6.68		

PND : Postnatal Day

Serum T4 concentration of offspring
Sex : Female
T4(PND13)

Animal No.	ng/mL		
50351	52.9		
50352	48.1		
50353	65.7		
50356	48.0		
50357	50.7		
50358	49.7		
50359	54.0		
50361	49.9		
50362	52.1		
n	9		
Mean	52.34		
S.D.	5.41		
PND : Postnatal Day			

Serum T4 concentration of offspring
Sex : Female
T4(PND13)

Stage : Postnatal Day 13
Dose : Isononane 1000 mg/kg

Animal No.	ng/mL		
50451	64.0		
50452	45.5		
50453	43.8		
50454	50.1		
50455	49.2		
50456	45.3		
50457	51.2		
50458	53.5		
50459	46.4		
50460	46.9		
50462	42.1		
n	11		
Mean	48.91		
S.D.	6.03		

PND : Postnatal Day

Dam No.	Necropsy findings of offspring Generation : F1		Dose : Isomannane 0 mg/kg		Species : Rat
	Number of live offspring examined on postnatal Day 13	/Findings	Number of dead offspring examined on postnatal Day 0-13	/Findings	
50151	8	Absent	0		0
50152	8	Absent	0		0
50153	8	Absent	0		0
50155	8	Absent	0		0
50156	8	Absent	0		0
50157	8	Absent	0		0
50159	8	Absent	0		0
50160	8	Absent	1	Absent (Day 0)	1
50161	8	Absent	0		0
50162	8	Absent	0		0
Total n	80		1		10

Dam No.	Necropsy findings of offspring Generation : F1		Dose : Isononane 60 mg/kg		Species : Rat
	Number of live offspring examined on postnatal Day 13	/Findings	Number of dead offspring examined on postnatal Day 0-13	/Findings	
50251	8	Absent	0		
50252	8	Absent	0		
50253	8	Absent	0		
50254	8	Absent	0		
50255	8	Absent	1	Absent (Day 0)	
50256	8	Absent	0		
50257	8	Absent	1	Absent (Day 0)	
50258	8	Absent	0		
50259	8	Absent	0		
50260	8	Absent	0		
50261	8	Absent	0		
50262	3	Absent	0		
Total	91		2		
n	12		12		

Dam No.	Necropsy findings of offspring Generation : F1		Dose : Isononane 250 mg/kg		Species : Rat
	Number of live offspring examined	/Findings on postnatal Day 13	Number of dead offspring examined	/Findings on postnatal Day 0-13	
50351	8	Absent	1	Absent (Day 0)	
50352	8	Absent	0		
50353	8	Absent	1	Absent (Day 0)	
50354	...	...	17	Absent ^a (Day 0)	
50356	8	Absent	0		
50357	8	Absent	1	Absent (Day 0)	
50358	8	Absent	0		
50359	8	Absent	0		
50361	8	Absent	0		
50362	8	Absent	0		
Total n	72	9	20		
			10		

a : Eight of them were partially (cervix/thorax/abdomen/hindlimb/tail) cannibalized by their mother.
Animal No. 50354 : Euthanized on lactation Day 0 because of abnormal delivery (stillbirth)
... : Blank

Dam No.	Necropsy findings of offspring		Dose : Isononane 1000 mg/kg	Species : Rat
	Number of live offspring examined	/Findings on postnatal Day 13		
50451	8	Absent	0	
50452	8	Absent	3	Absent ^a (Day 0)
50453	2	Absent	6	Absent ^a (Day 1)
50454	8	Absent	0	
50455	8	Absent	0	
50456	8	Absent	0	
50457	8	Absent	0	
50458	8	Absent	0	
50459	8	Absent	0	
50460	8	Absent	0	
50461	...	...	16	Absent (Day 0, 1; Day 1; 1, Day 2, 3; Day 3, 11)
50462	8	Absent	0	
Total	82		25	
n	11		12	

a : One of them was partially (thorax/abdomen) cannibalized by their mother.
 Animal No. 50461 : Euthanized on lactation Day 3 because of moribund condition
 .. : Blank

Annex 1

製品検査報告書

(株) 化合物安全性研究所

御中

2019年8月28日

品質保証課長

ロット番号

検査結果

分析項目	規格	分析値
外観	異物のない無色透明の液体	合格
色相 (APHA)	10以下	5
比重 (20/20°C)	0.705~0.745	0.726
水分 (%)	0.01以下	0.01以下
蒸留試験 初留点	131以上	131.5
乾点	141以下	136.0
蒸発残分 (g/100ml)	0.005以下	0.005以下

判定結果

合格

備考

報告書番号 NCAS 19-257

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最終報告書

試験名

調製液中のイソノナンの安定性試験および濃度確認試験

著者



試験終了日

2020年3月5日

試験施設

株式会社日曹分析センター 小田原事業所

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TRUE COPY OF ORIGINAL

試験番号

NCAS 19-257

3/5/20 17.84

報告書番号 NCAS 19-257

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GLP 適合陳述書

試験番号 : NCAS 19-257

試験名 : 調製液中のイソノナンの安定性試験および濃度確認試験

この試験は、以下の GLP に従って実施した。

「新規化学物質等に係る試験を実施する試験施設に関する基準について」(平成 23 年 3 月 31 日 薬食発 0331 第 8 号、平成 23・03・29 製局第 6 号、環保企発第 110331010 号)

この試験はここに述べられた方法により行われ、この最終報告書は試験実施により得られた生データを正確に反映したものである。

試験責任者 :

2020 年 3 月 5 日

株式会社日曹分析センター 小田原事業所

信頼性保証書

試験番号 : NCAS 19-257

試験名 : 調製液中のイソノナンの安定性試験および濃度確認試験

上記試験の信頼性保証の監査または査察を適用 GLP および信頼性保証部門 (QAU) の SOP に基づいて実施した。監査または査察の結果は、以下の日付で試験責任者および運営管理者に報告した。

監査または査察項目	日付 (月/日/年)		
	監査または 査察日	試験責任者	報告日 運営管理者
試験計画書	10/18/2019	10/18/2019	10/18/2019
試験計画書変更届 1	2/12/2020	2/12/2020	2/12/2020
実験操作			
・赤外吸収スペクトル測定	11/1/2019	11/1/2019	11/1/2019
・標準溶液の調製	11/5/2019	11/5/2019	11/5/2019
・模擬調製液の調製	11/5/2019	11/5/2019	11/5/2019
・被験溶液の調製	11/5/2019	11/5/2019	11/5/2019
・GC 測定	11/5/2019	11/5/2019	11/5/2019
生データおよび関連試験資料	2/18-3/2/2020	3/2/2020	3/2/2020
報告書草案	2/18-3/2/2020	3/2/2020	3/2/2020
最終報告書	3/5/2020	3/5/2020	3/5/2020

QAU は、この試験が試験計画書および SOP に従って行われ、報告された方法や手段が実際に使われたものであり、結果は記録されたデータを正確に反映していることを確認した。

QAU 責任者

2020 年 3 月 5 日

(株) 日曹分析センター

報告書番号 NCAS 19-257

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試験情報

試験番号 : NCAS 19-257
試験名 : 調製液中のイソノナンの安定性試験および濃度確認試験
報告書番号 : NCAS 19-257

試験委託者 : 株式会社化合物安全性研究所 安全性研究部
〒004-0839 北海道札幌市清田区真栄 363 番地 24

試験施設 : 株式会社日曹分析センター 小田原事業所
〒250-0216 神奈川県小田原市高田 345
TEL 0465-42-8201 FAX 0465-42-3586

試験責任者 : [REDACTED]
試験従事者 : [REDACTED]

試験開始日 : 2019年10月18日
実験開始日 : 2019年11月1日
実験終了日 : 2020年2月3日
試験終了日 : 2020年3月5日

適用ガイドライン : なし

関連する試験 : 試験番号 SR19180 ; イソノナンのラットにおける反復投与毒性・生殖発生毒性併合試験
試験番号 NCAS 19-255NG ; 調製液中のイソノナンの分析法検討および分析法確認試験

試資料保管 : 本試験に関する全ての文書は、当試験施設の資料室に該当通知後 10 年間保管する。その後の保管場所については、試験委託者と協議して決定する。測定対象物質(保管用サンプル)は該当通知後 10 年間または品質低下を起さない期間のいずれか短い期間保管する。

SOP および試験計画書からの逸脱 :

50 mg/mL 調製液中のイソノナン濃度測定における希釈操作時に、試験計画書に規定された 50 倍希釈操作ではなく、200 mg/mL 調製液と同じ 200 倍希釈操作を実施した。この結果、希釈後濃度 1000 mg/L が 250 mg/L になったが、検量線(濃度範囲 30~2000 mg/L) の範囲内であり、イソノナン濃度測定における分析化学上の問題は生じなかった。試験に対する影響はない。

試験成績の信頼性に影響を及ぼしたと思われる環境要因 :

本試験において、試験成績の信頼性に影響を及ぼしたと思われる環境要因はなかった。

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概要

株式会社化合物安全性研究所からの委託により、調製液中のイソノナンの安定性試験および濃度確認試験を実施した。

2019年11月1日にFT-IR(ATR法)を用いて測定対象物質のIRスペクトルを測定し、委託者より提供されたIRスペクトルと比較した。両者のIRスペクトルは一致しており、測定対象物質の同一性を確認した。

調製液中のイソノナンの安定性を確認するため、2 mg/mL および 200 mg/mL 模擬調製液を 2019 年 11 月 5 日に試験施設で調製し、ガスクロマトグラフ(GC)を用いて調製直後の測定対象物質濃度を確認した。これら模擬調製液を遮光条件下で室温 10 日間保存した。2019 年 11 月 15 日に GC を用いて保存後の測定対象物質濃度を確認した。調製直後および保存後の模擬調製液中の測定対象物質濃度を比較して、残存率を算出した結果、2 mg/mL 模擬調製液の残存率は 88.9%、200 mg/mL 模擬調製液の残存率は 89.8%であり、判定基準 (100%±15%以内) を満たした。

以上の結果、調製液中のイソノナンは調製後、遮光条件下で室温保存 10 日間後まで安定であることを確認した。

試験委託者が実施する毒性試験(委託者試験番号 SR19180)における初回および最終回投与に用いた調製液を、試験委託者より 2019 年 11 月 21 日および 2019 年 12 月 19 日に受領し、それら調製液中の測定対象物質の濃度確認試験を、GC を用いて行った。調製液中の測定対象物質濃度の平均値および相対標準偏差は設定濃度±15%以内および 15%以内であり、判定基準を満たした(下表参照)。

以上の結果、調製液中のイソノナンが設定濃度に調製されていることを確認した。

試験委託者が実施する毒性試験(委託者試験番号 SR19180)における最終投与日以降の 2020 年 2 月 3 日に、測定対象物質の IR スペクトルを測定し、2019 年 11 月 1 日に測定した IR スペクトルと比較した。両者の IR スペクトルは一致しており、実験期間中の測定対象物質が安定であったことを確認した。

Received date	Nominal concentration (mg/mL)	Determined concentration		Criteria	
		Mean (mg/mL)	RSD* (%)	Mean conc. (mg/mL)	RSD* (%)
November 21, 2019	12	11.79	2.76	12±1.8	≤15
	50	49.78	2.72	50±7.5	≤15
	200	209.9	1.44	200±30	≤15
December 19, 2019	12	11.92	1.14	12±1.8	≤15
	50	51.84	3.31	50±7.5	≤15
	200	208.6	0.40	200±30	≤15

* relative standard deviations

緒言

株式会社化合物安全性研究所からの委託により、調製液中のイソノナンの安定性試験・濃度確認およびイソノナンの同一性確認・安定性確認を実施した。

実験材料および方法

1. 測定対象物質

名称 :	イソノナン
英名 :	Isononane
製品名 :	[REDACTED]
ロット番号 :	[REDACTED]
入手先 :	株式会社化合物安全性研究所
入手日 :	2019年8月30日
入手量 :	20.01 g
NCAS 検索番号 :	STD-1650
保存条件 :	室温、気密（褐色ガラス瓶中に密封、室温保管）
外観 :	無色透明液体

2. 試薬および機器

トウモロコシ油 :	試薬 (Reagent)、ナカライトスク株式会社
アセトン :	特級、富士フィルム和光純薬(株)
天秤 :	XP205、メトラー・トレド(株)
室温保管庫 :	SH-170F1NC、コクヨ
超音波洗浄器 :	MCD-3、アズワン(株)
サーモレコーダー :	RTR-52、(株)ティアンドディ
マイクロビペット :	1000 μL、Eppendorf AG
フーリエ変換赤外分光光度計 :	Spectrum One、PerkinElmer(株)
ガスクロマトグラフ (GC) :	Agilent 7890 GC、Agilent Technologies
	カラム : TC-624、60 m × 0.25 mm i.d.、膜厚 1.40 μm、製造 No.G0804N06、GL Sciences Inc.

3. 調製液

毒性試験施設で調製した 12、50 および 200 mg/mL の調製液を 2019 年 11 月 21 日および 2019 年 12 月 19 日に受領した。受領した試料は即日分析した。残余試料は試験委託者の了解を得て廃棄した。

4. 実験操作

4.1. 測定対象物質の同一性

FT-IR (ATR 法) を用いて測定対象物質の IR スペクトルを測定し、委託者提供の IR スペクトルとの比較により同一性を確認した。

2019 年 11 月 1 日に、次の条件で IR スペクトルを測定した。測定は室温で実施した。

<FT-IR 測定条件>

測定法 : ATR 法
 測定波数 : 4000~400 cm⁻¹
 分解能 : 4 cm⁻¹
 積算回数 : 1 回

4.2. 測定対象物質の安定性

試験委託者が実施した毒性試験（委託者試験番号 SR19180）における最終投与日以降に、FT-IR（ATR 法）を用いて測定対象物質の IR スペクトルを測定し、4.1 項にて測定したスペクトルと比較した。スペクトルが一致した場合、実験期間中の測定対象物質は安定であったと判断した。

2020 年 2 月 3 日に、4.1 項に記載の条件で IR スペクトルを測定した。測定は室温で実施した。

4.3. GC 条件

注入口温度 : 200 °C
 注入方法 : スプリット (スプリット比 10:1)
 注入量 : 2 μL
 キャリアガス : ヘリウム
 線速度 : 33 cm/秒
 カラム : TC-624、60 m×0.25 mm i.d.、膜厚 1.40 μm
 オープン温度 : 初期温度 50 °C、昇温 50→200 °C (10 °C/min)、最終温度 200 °C
 検出器 : FID
 検出器温度 : 230 °C

4.4. 標準溶液の調製

測定対象物質の約 100 mg を 10 mL 容メスフラスコに秤量し、アセトンを加えて溶解および定容し、標準原液 No. ST10000 を調製した。この液を次表に従いアセトンで希釈して標準溶液 No. SS30～SS2000 を調製した。標準原液 No. および標準溶液 No. には調製月日(mddd)を付して識別した。濃度の有効数字は 4 衔とした。

Standard solution No.	Source solution		Dilution volume (mL)	Nominal concentration (mg/L)
	No.	Volume (mL)		
SS30 (mddd)	SS100 (mddd)	3	10	30
SS100 (mddd)	SS1000 (mddd)	2	20	100
SS200 (mddd)	SS1000 (mddd)	2	10	200
SS1000 (mddd)	ST10000 (mddd)	2	20	1000
SS2000 (mddd)	ST10000 (mddd)	2	10	2000

4.5. 検量線

標準溶液を 4.3 項に示す GC 条件で分析し、得られたクロマトグラム上の測定対象物質のピーク面積を得た。得られたピーク面積を縦軸に、測定対象物質濃度(mg/L)を横軸としてグラフを作成するとともに、回帰直線の傾き、y 切片及び相関係数(r)を算出した。計算には Microsoft Office Excel 2010 (SP2 MSO)を用いた。

4.6. 調製液中のイソノナンの濃度測定

3 項の調製液を以下のように希釀して被験溶液を調製した。別に、トウモロコシ油 1 mL にアセトンを加えて 20 mL として対照溶液とした(n=1)。調製液およびトウモロコシ油にアセトンを加えて定容した後、均一にするために超音波洗浄器を用いた。

12 mg/mL 調製液

12 mg/mL 調製液 1 mL にアセトンを加えて 20 mL として被験溶液とした。(n=2、20 倍希釀)

50 mg/mL 調製液

50 mg/mL 調製液 1 mL にアセトンを加えて 20 mL とした。この液 1 mL にアセトンを加えて 10 mL として被験溶液とした。(n=2、200 倍希釀)

200 mg/mL 調製液

200 mg/mL 調製液 1 mL にアセトンを加えて 20 mL とした。この液 1 mL にアセトンを加えて 10 mL として被験溶液とした。(n=2、200 倍希釀)

被験溶液および対照溶液を 4.3 項に示す GC 条件で分析し、得られたクロマトグラム上の測定対象物質のピーク面積を得た。予め作成した検量線より、被験溶液中の測定対象物質濃度を算出した。濃度の有効数字は 4 衔とした。次式を用いて調製液中の測定対象物質濃度を求めた。また、調製液中の測定対象物質濃度の平均値及び相対標準偏差を求めた。判定基準は、平均値が設定濃度±15%以内および相対標準偏差が 15%以内とした。

Received date	Dosing solution		Dilution factor	Test solution (mg/L)	
	Nominal conc. (mg/mL)	No.		Nominal conc. (mg/L)	No.
November 21, 2019	12	P1-1	20	600	P1-1-1, P1-1-2
	50	P2-1	200	250	P2-1-1, P2-1-2
	200	P3-1	200	1000	P3-1-1, P3-1-2
December 19, 2019	12	P1-2	20	600	P1-2-1, P1-2-2
	50	P2-2	200	250	P2-2-1, P2-2-2
	200	P3-2	200	1000	P3-2-1, P3-2-2

$$\text{調製液中の測定対象物質濃度 (mg/mL)} = \frac{\text{被験溶液中の測定対象物質濃度 (mg/L)} \times \text{希釀倍率}}{1000}$$

4.7. 調製液中のイソノナンの安定性確認

測定対象物質の 42.43 mg および 1000.5 mg を 20 mL および 5 mL 容メスフラスコに秤量し、トウモロコシ油を加えて溶解および定容し、2 mg/mL 模擬調製液 No. DS1 および 200 mg/mL 模擬調製液 No. DS2 を調製した。模擬調製液を次のように希釀して被験溶液を調製した。別に、トウモロコシ油 1 mL にアセトンを加えて 20 mL として対照溶液 No. CS1 を調製した(n=1)。

なお、模擬調製液およびトウモロコシ油 1 mL を分取後にアセトンを加えて定容した際に、均一にするために超音波洗浄器を用いた。

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2 mg/mL 模擬調製液

2 mg/mL 模擬調製液 1 mL にアセトンを加えて 20 mL として被験溶液とした。 (n=2、20 倍希釈)

200 mg/mL 模擬調製液

200 mg/mL 模擬調製液 1 mL にアセトンを加えて 20 mL とした。この液 1 mL にアセトンを加えて 10 mL として被験溶液とした。 (n=2、200 倍希釈)

被験溶液および対照溶液を 4.3 項に示す GC 条件で分析し、得られたクロマトグラム上の測定対象物質のピーク面積を得た。予め作成した検量線より、被験溶液中の測定対象物質濃度を算出した。濃度の有効数字は 4 衔とした。次式を用いて調製直後の模擬調製液中の測定対象物質濃度を求めた。

$$\text{模擬調製液中の測定対象物質濃度} = \frac{\text{被験溶液中の測定対象物質濃度 (mg/L)} \times \text{希釈倍率}}{1000}$$

2 mg/mL および 200 mg/mL 模擬調製液を遮光条件下で室温 10 日間保存した。保存後の模擬調製液中の測定対象物質濃度を上記と同様に算出し、次式を用いて残存率を求めた。判定基準は残存率 100%±15% 以内とした。

$$\text{残存率 (\%)} = \frac{\text{保存後の測定対象物質平均濃度}}{\text{調製直後の測定対象物質平均濃度}} \times 100$$

結果および考察

調製液中のイソノナンの安定性試験・濃度確認およびイソノナンの同一性確認・安定性確認を実施した結果を以下に示す。

測定対象物質の同一性

2019 年 11 月 1 日に測定した測定対象物質の IR スペクトルを Fig. 1 に示す。委託者提供の IR スペクトルを Fig. 2 に示す。両者のスペクトルは一致しており、同一性を確認した。

測定対象物質の安定性

試験委託者が実施する毒性試験（委託者試験番号 SR19180）における最終投与日以降である 2020 年 2 月 3 日に測定した測定対象物質の IR スペクトルを Fig. 3 に示す。2019 年 11 月 1 日に測定した IR スペクトル (Fig. 1) と比較した結果、両者の IR スペクトルは一致しており、実験期間中の測定対象物質が安定であったことを確認した。

調製液中のイソノナンの安定性確認

標準溶液の測定結果を Table 1 に示す。模擬調製液中の測定対象物質の濃度測定結果を Table 2 に示す。検量線の一例を Fig. 4 に示す。アセトンのクロマトグラム例を Fig. 5 に示す。標準溶液のクロマトグラム例を Fig. 6～Fig. 10 に示す。対照溶液のクロマトグラム例を Fig. 11 に示す。被験溶液のクロマトグラム例を Fig. 12～Fig. 15 に示す。

模擬調製液を遮光条件下で室温 (20.6～23.4 °C) 10 日間保存した結果、2 mg/mL 模擬調製液の残存率は 88.9%、

200 mg/mL 模擬調製液の残存率は 89.8% であり、判定基準 (100%±15%以内) を満たした。

以上の結果、調製液中のイソノナンは調製後、遮光条件下で室温保存 10 日間まで安定であることを確認した。

調製液中のイソノナンの濃度測定

調製液中の測定対象物質の濃度測定結果を Table 3 に示す。被験溶液のクロマトグラム例を Fig. 16～Fig. 18 に示す。

調製液中の測定対象物質濃度の平均値および相対標準偏差は設定濃度±15%以内および 15%以内であり、判定基準を満たした。

以上の結果、調製液中のイソノナンが設定濃度に調製されていることを確認した。

結論

本試験において、FT-IR(ATR 法)を用いてイソノナンの同一性および安定性を確認した。また、GC を用いて調製液中のイソノナンが設定濃度に調製されていること、および安定性（遮光条件下における室温保存 10 日間安定）を確認した。

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Table 1 Results of the standard solutions

Experiment	Standard solution No.	Concentration (mg/L)	Peak area	Regression equation Correlation coefficient
Stability of the isononane concentration in the dosing solution	SS30 (1105)	30.78	147.28	Regression equation: $y = 3.8792x + 1.0114$ Correlation coefficient: 0.9999 (analyzed date: November 5, 2019)
	SS100 (1105)	102.6	406.35	
	SS200 (1105)	205.2	807.50	
	SS1000 (1105)	1026	3895.37	
	SS2000 (1105)	2052	8002.19	
	SS30 (1115)	30.84	145.21	Regression equation: $y = 4.3584x + 14.542$ Correlation coefficient: 1.0000 (analyzed date: November 15, 2019)
	SS100 (1115)	102.8	473.41	
	SS200 (1115)	205.6	892.02	
	SS1000 (1115)	1028	4515.29	
	SS2000 (1115)	2056	8966.64	
Determination of the isononane concentration in the dosing solution	SS30 (1121)	30.99	151.21	Regression equation: $y = 3.8380x + 46.490$ Correlation coefficient: 1.0000 (analyzed date: November 21, 2019)
	SS100 (1121)	103.3	434.76	
	SS200 (1121)	206.6	834.78	
	SS1000 (1121)	1033	4063.00	
	SS2000 (1121)	2066	7950.83	
	SS30 (1219)	30.42	127.35	Regression equation: $y = 3.7159x + 19.628$ Correlation coefficient: 1.0000 (analyzed date: December 19, 2019)
	SS100 (1219)	101.4	406.01	
	SS200 (1219)	202.8	771.98	
	SS1000 (1219)	1014	3782.09	
	SS2000 (1219)	2028	7558.04	

Table 2 Results of the stability of the test article (isononane) concentrations in the dosing solutions

Test solution No.	Storage	Prepared conc. (mg/mL)	Dilution factor	Peak area	Detected conc. (mg/L)	Determined conc. (mg/mL)		Residual rate (%)
						Individual	Mean	
DS1-1	Before*	2.122	20	427.09	109.8	2.197	2.157	88.9
DS1-2				411.51	105.8	2.116		
DS1-3				437.74	97.10	1.942	1.918	
DS1-4				427.30	94.70	1.894		
DS2-1	Before*	200.1	200	3749.10	966.2	193.2	196.4	89.8
DS2-2				3873.28	998.2	199.6		
DS2-3				3880.77	887.1	177.4	176.5	
DS2-4				3839.72	877.7	175.5		

*Before: November 5, 2019, After: November 15, 2019

$$\text{Residual rate (\%)} = \frac{\text{Isononane concentration after storage}}{\text{Isononane concentration before storage}} \times 100$$

Table 3 Results of the determination of the test article (isononane) concentrations in the dosing solutions

Received date	Test solution No.	Nominal conc. (mg/mL)	Dilution factor	Peak area	Detected conc. (mg/L)	Determined conc.		Criteria		
						Individual	Mean (mg/mL)	RSD (%)	Mean (mg/mL)	RSD (%)
November 21, 2019	P1-1-1	12	20	2264.90	578.0	11.56	11.79	2.76	12 ± 1.8	≤ 15
	P1-1-2			2353.28	601.0	12.02				
	P2-1-1	50	200	1020.05	253.7	50.73	49.78	2.72	50 ± 7.5	≤ 15
	P2-1-2			983.34	244.1	48.82				
	P3-1-1	200	200	4115.39	1060	212.0	209.9	1.44	200 ± 30	≤ 15
	P3-1-2			4033.10	1039	207.7				
December 19, 2019	P1-2-1	12	20	2216.29	591.1	11.82	11.92	1.14	12 ± 1.8	≤ 15
	P1-2-2			2251.85	600.7	12.01				
	P2-2-1	50	200	1005.29	265.3	53.05	51.84	3.31	50 ± 7.5	≤ 15
	P2-2-2			960.24	253.1	50.63				
	P3-2-1	200	200	3885.28	1040	208.1	208.6	0.40	200 ± 30	≤ 15
	P3-2-2			3907.28	1046	209.2				

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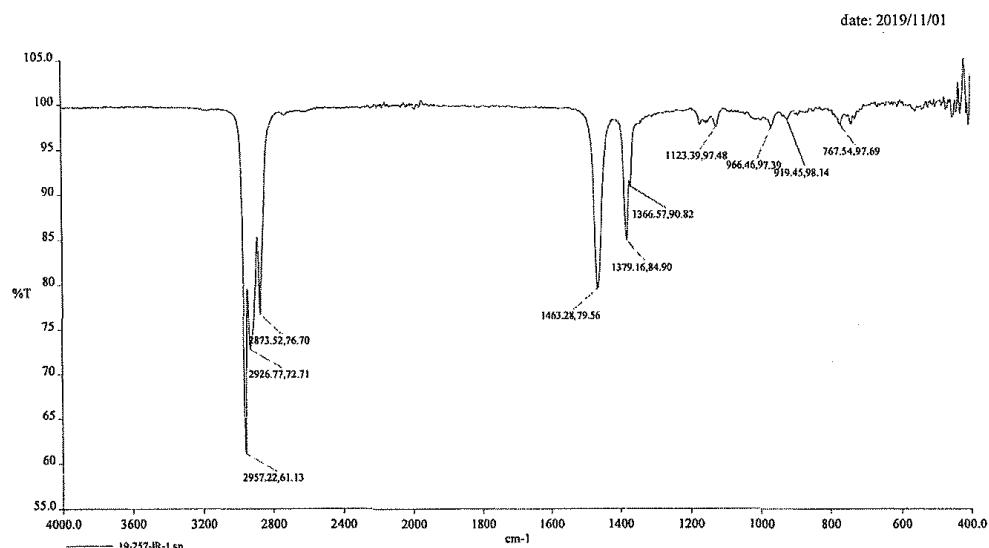


Fig. 1 IR spectrum of the test article for the identity test (analyzed date: November 1, 2019).

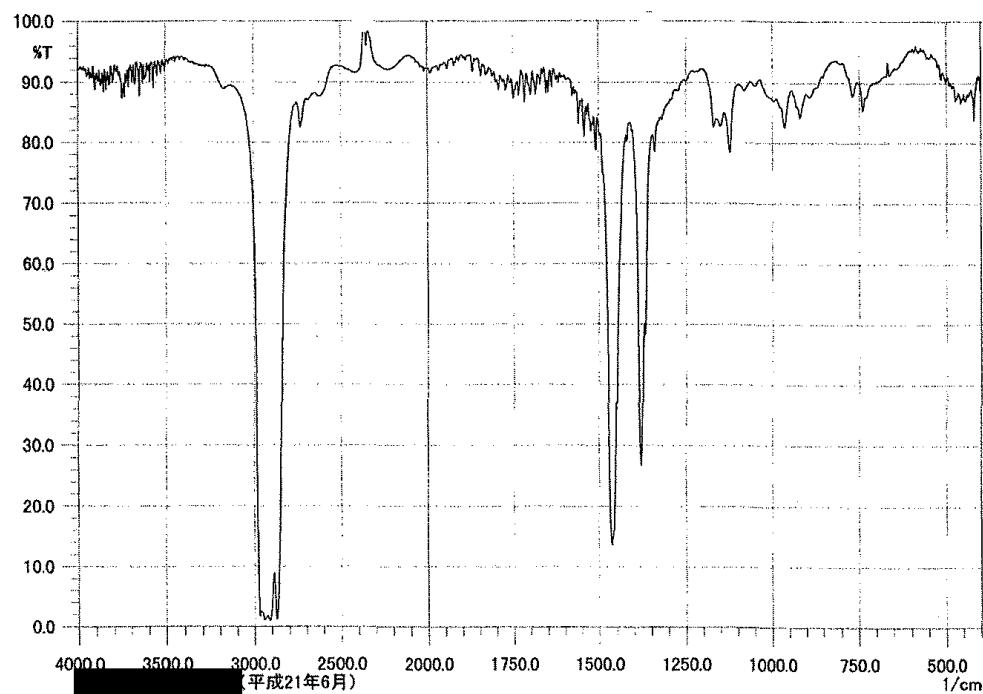


Fig. 2 IR spectrum of the test article provided by the sponsor.

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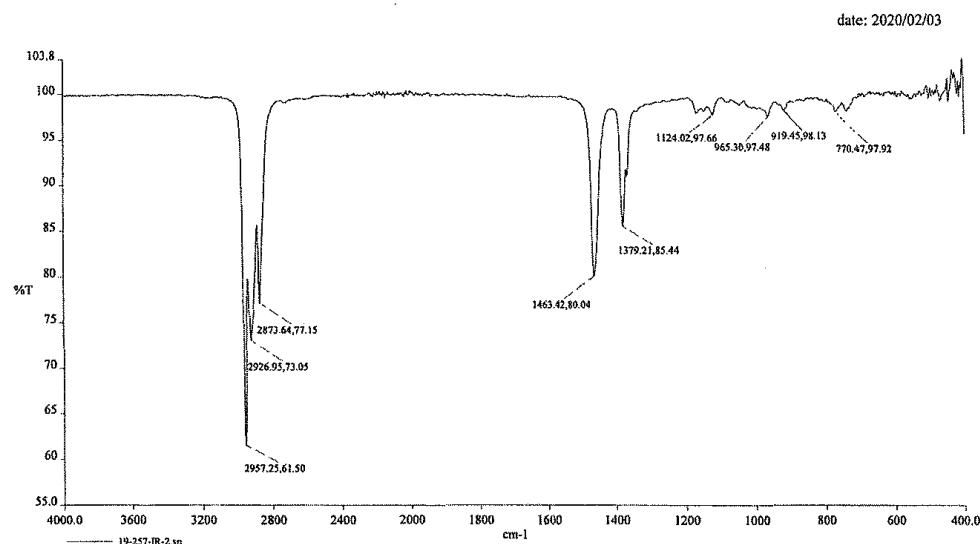


Fig. 3 IR spectrum of the test article for the stability test (analyzed date: February 3, 2020).

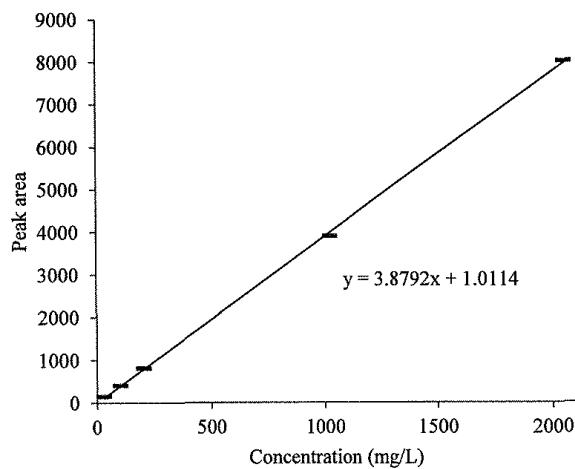
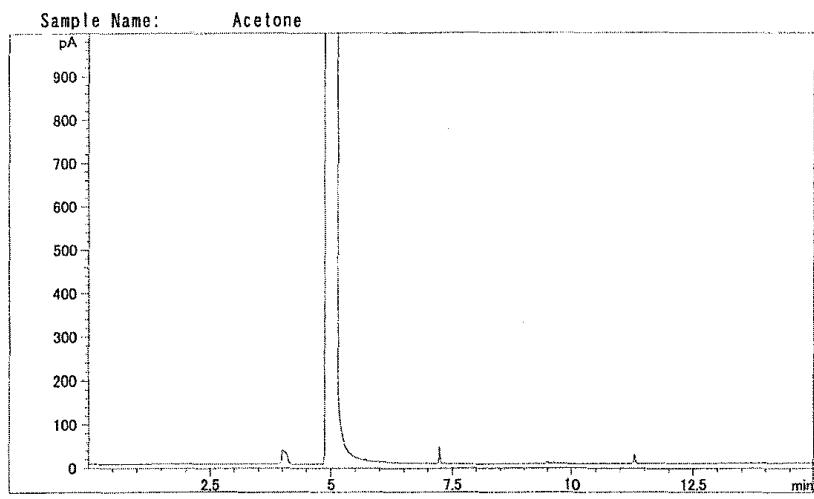


Fig. 4 Typical calibration plot and regression line (analyzed date: November 5, 2019).

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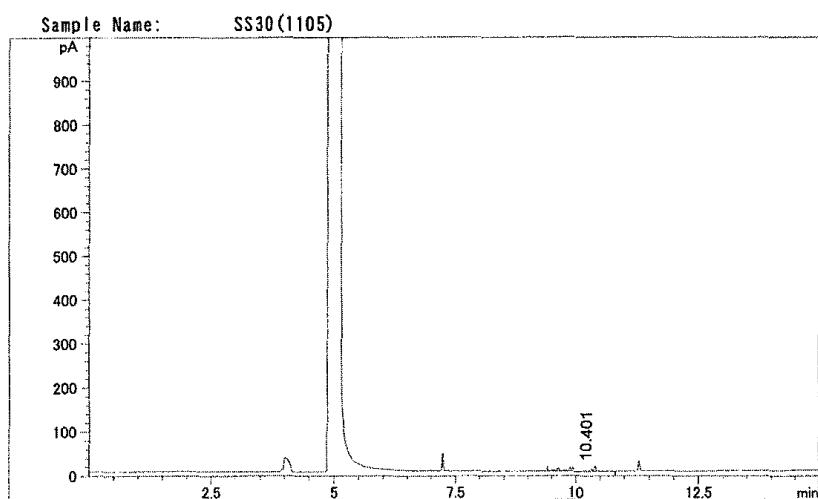
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<Result>

Name	Time(min)	Aera(pA*s)	Height	Area(%)
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Fig. 5 Typical chromatogram of acetone.



<Result>

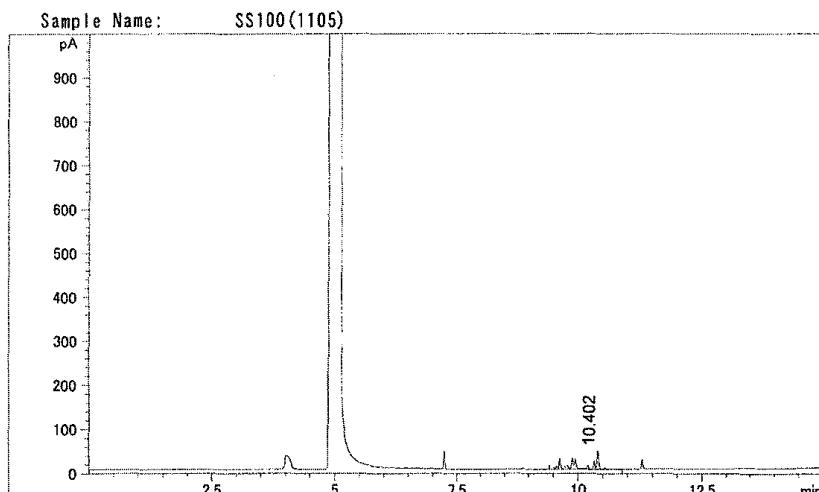
Name	Time(min)	Aera(pA*s)	Height	Area(%)
	10.401	147.28	13.413	100.00

Fig. 6 Typical chromatogram of the standard solutions (No. SS30(1105)).

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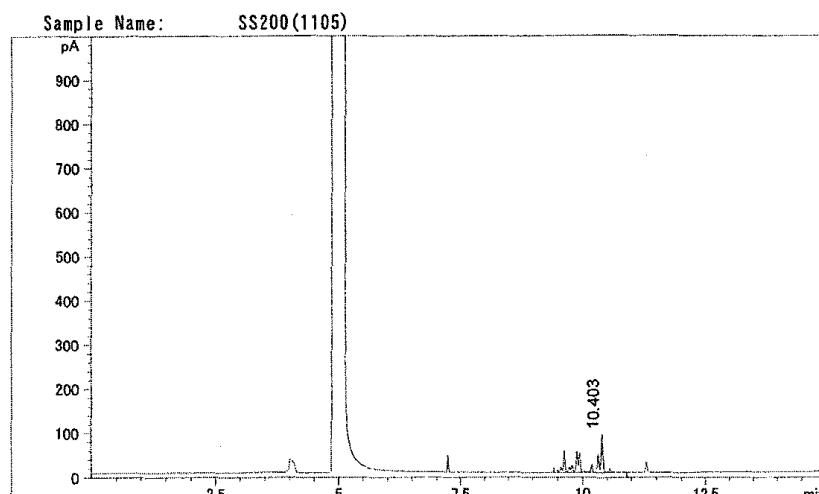
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<Result>

Name	Time(min)	Aera(pA*s)	Height	Area(%)
	10.402	406.35	42.480	100.00

Fig. 7 Typical chromatogram of the standard solutions (No. SS100(1105)).



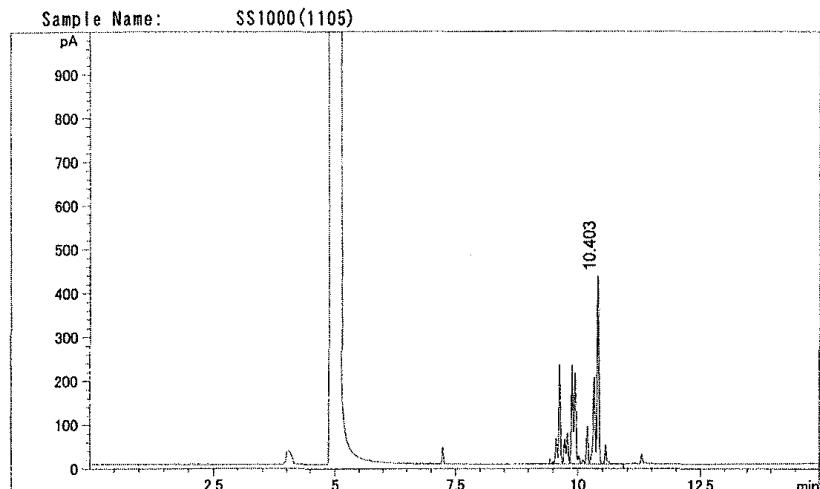
<Result>

Name	Time(min)	Aera(pA*s)	Height	Area(%)
	10.403	807.50	86.048	100.00

Fig. 8 Typical chromatogram of the standard solutions (No. SS200(1105)).

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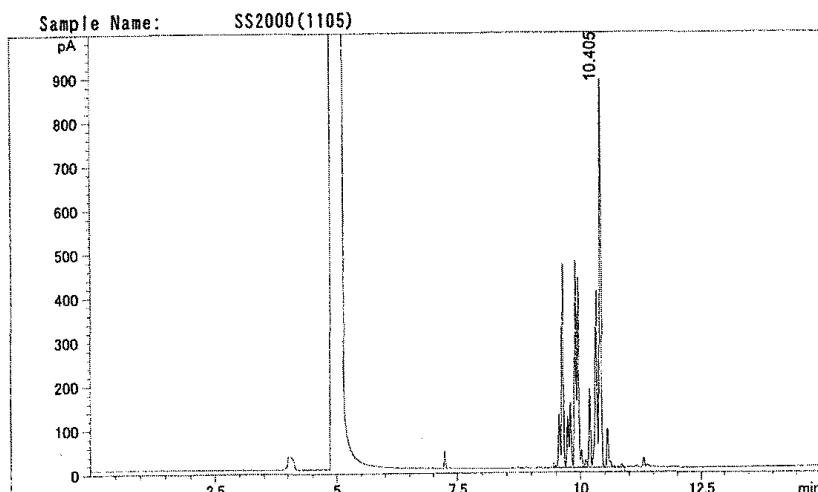
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<Result>

Name	Time(min)	Aera(pA*s)	Height	Area(%)
	10.403	3895.37	429.244	100.00

Fig. 9 Typical chromatogram of the standard solutions (No. SS1000(1105)).



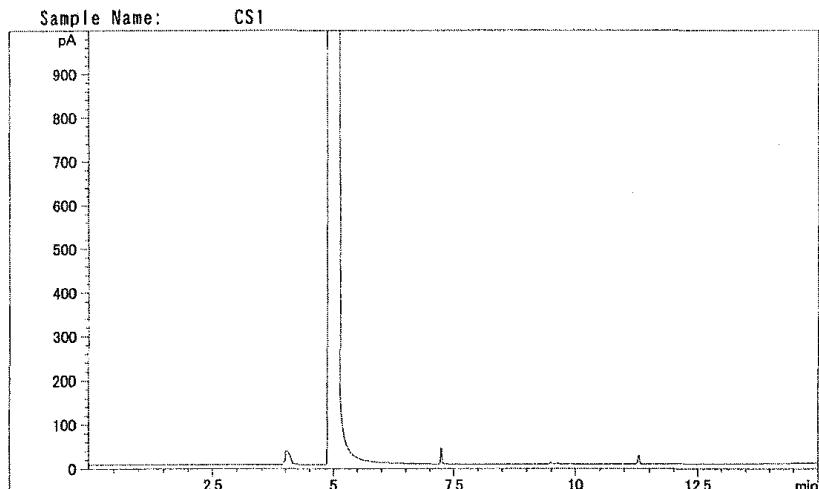
<Result>

Name	Time(min)	Aera(pA*s)	Height	Area(%)
	10.405	8002.19	882.820	100.00

Fig. 10 Typical chromatogram of the standard solutions (No. SS2000(1105)).

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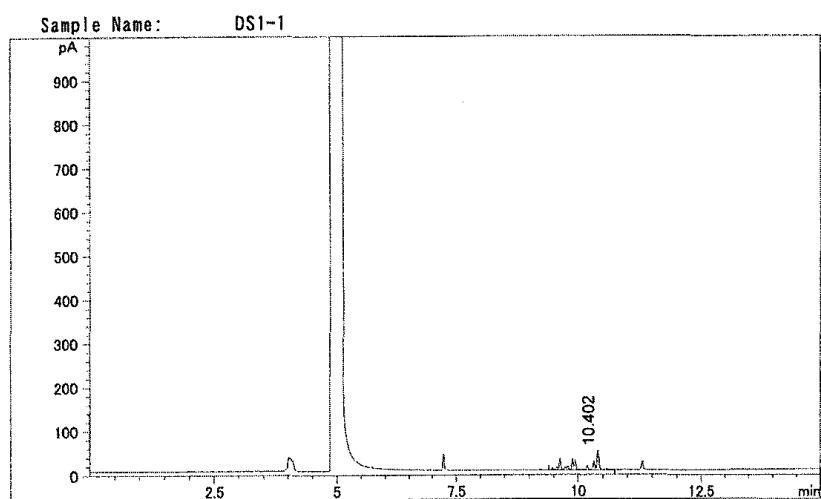
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<Result>

Name	Time(min)	Aera(pA*s)	Height	Area(%)
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Fig. 11 Typical chromatogram of the control solutions (No. CS1).



<Result>

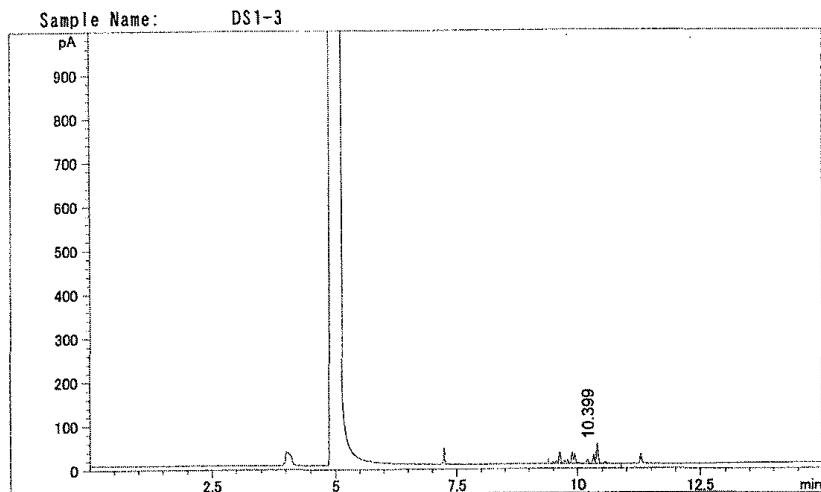
Name	Time(min)	Aera(pA*s)	Height	Area(%)
	10.402	427.09	44.668	100.00

Fig. 12 Typical chromatogram of the test solutions (No. DS1-1).

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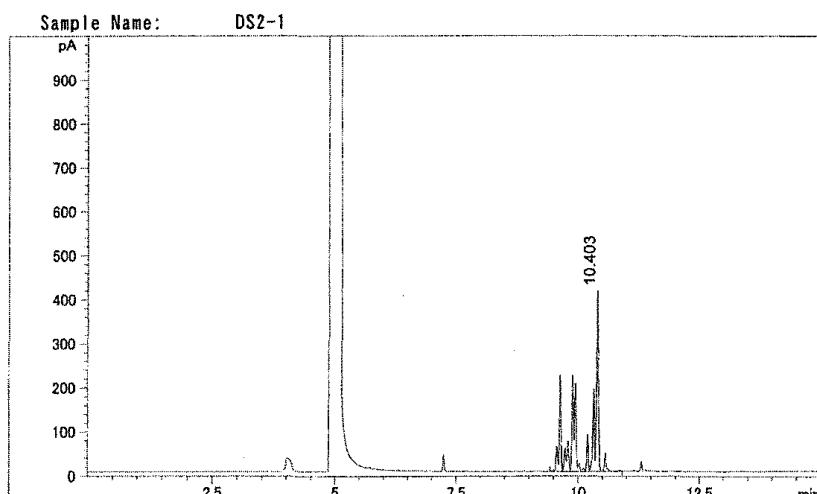
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<Result>

Name	Time(min)	Aera(pA*s)	Height	Area(%)
	10.399	437.74	45.600	100.00

Fig. 13 Typical chromatogram of the test solutions (No. DS1-3).



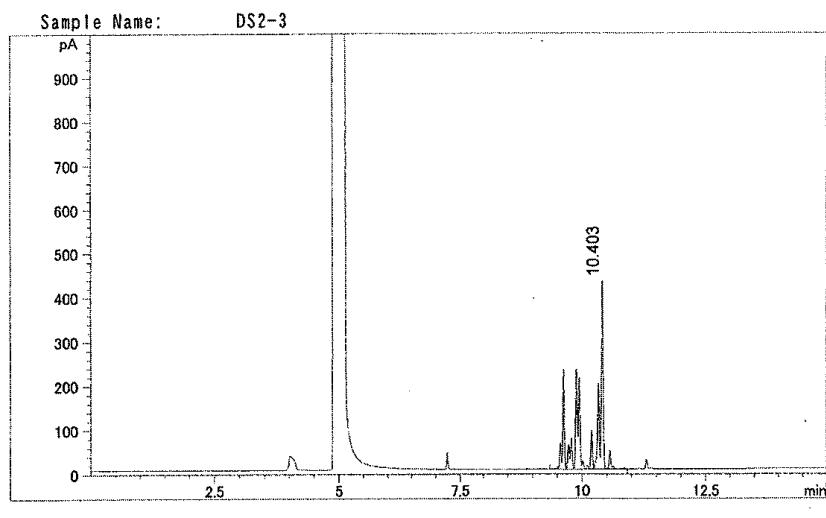
<Result>

Name	Time(min)	Aera(pA*s)	Height	Area(%)
	10.403	3749.10	410.404	100.00

Fig. 14 Typical chromatogram of the test solutions (No. DS2-1).

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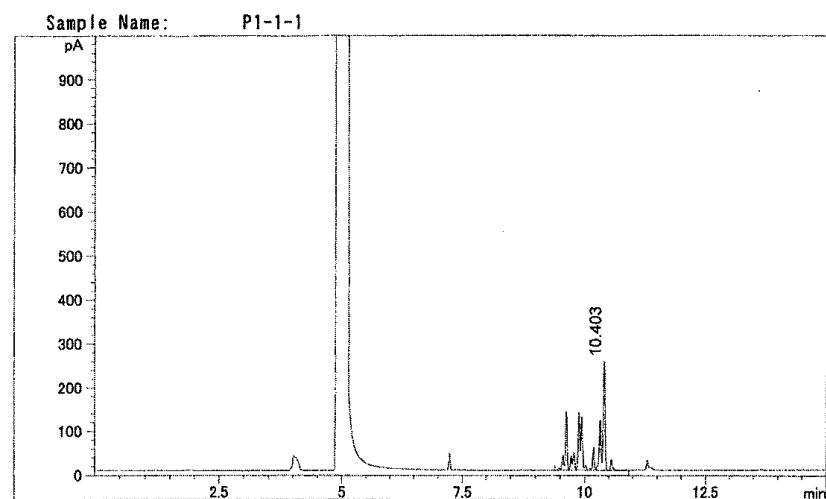
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<Result>

Name	Time (min)	Aera (pA*s)	Height	Area (%)
	10.403	3880.77	425.143	100.00

Fig. 15 Typical chromatogram of the test solutions (No. DS2-3).



<Result>

Name	Time (min)	Aera (pA*s)	Height	Area (%)
	10.403	2264.90	248.921	100.00

Fig. 16 Typical chromatogram of the test solutions (No. P1-1-1).

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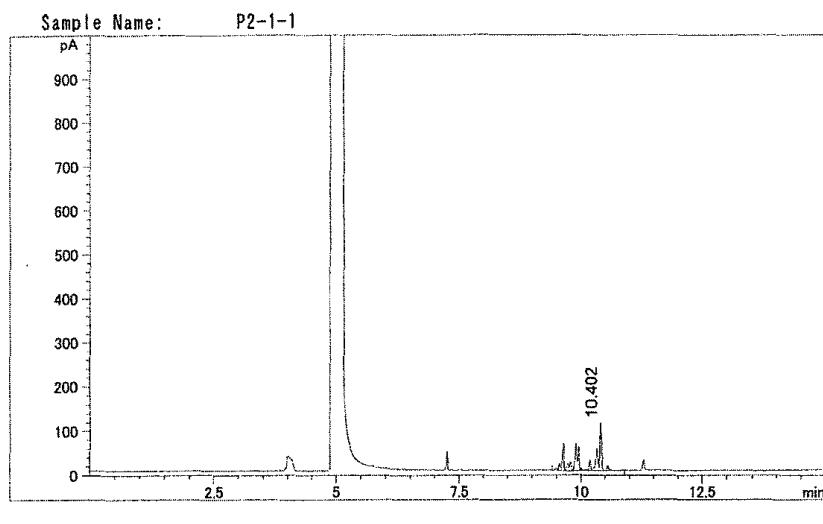


Fig. 17 Typical chromatogram of the test solutions (No. P2-1-1).

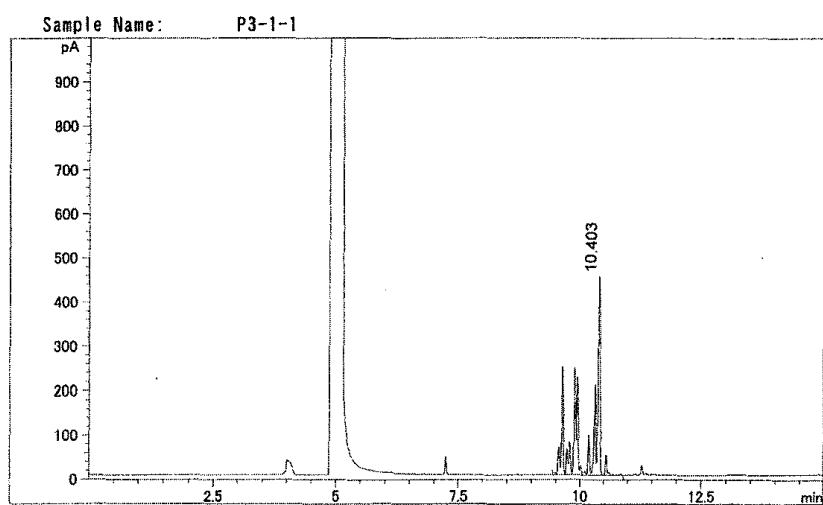


Fig. 18 Typical chromatogram of the test solutions (No. P3-1-1).