

B-9244

## 最 終 報 告 書

2-メチルヘキサン：ラットを用いた 28 日間反復経口投与毒性試験  
及び 14 日間回復試験

試験番号 B-9244

試験期間

2023 年 10 月 26 日-2024 年 3 月 19 日

試験施設

株式会社ボゾリサーチセンター 御殿場研究所  
〒412-0039 静岡県御殿場市かまど 1284

試験委託者

厚生労働省医薬局医薬品審査管理課化学物質安全対策室  
〒100-8916 東京都千代田区霞が関 1-2-2

試験受託者

株式会社ボゾリサーチセンター  
〒151-0065 東京都渋谷区大山町 36-7

B-9244


## 1. GLP 陳述書

試験番号 : B-9244

試験表題 : 2-メチルヘキササン : ラットを用いた 28 日間反復経口投与毒性試験  
及び 14 日間回復試験

本試験は以下の GLP を遵守して実施したものです。

- 「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」(薬食発 0331 第 8 号、平成 23・03・29 製局第 6 号、環保企発第 110331010 号 : 平成 23 年 3 月 31 日)

 2024 年 3 月 19 日

試験責任者

株式会社ボゾリサーチセンター 御殿場研究所

## 2. 目次

1.	GLP 陳述書 .....	2
2.	目次 .....	3
3.	試験実施概要 .....	7
3.1	試験番号 .....	7
3.2	試験表題 .....	7
3.3	試験目的 .....	7
3.4	規制に関する情報 .....	7
3.4.1	GLP .....	7
3.4.2	毒性試験ガイドライン .....	7
3.4.3	動物の福祉 .....	7
3.5	試験委託者 .....	7
3.6	試験受託者 .....	8
3.7	試験施設 .....	8
3.8	試験責任者 .....	8
3.9	試験担当者 .....	8
3.10	試験日程 .....	8
3.11	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 .....	9
3.12	資料保存 .....	9
3.13	試験責任者の署名 .....	10
4.	要約 .....	11
5.	試験材料及び方法 .....	12
5.1	被験物質及び媒体 .....	12
5.1.1	被験物質 .....	12
5.1.2	媒体 .....	12
5.2	媒体及び被験液の調製 .....	12
5.2.1	媒体の調製 .....	12
5.2.2	被験液の調製 .....	13
5.2.2.1	調製方法 .....	13
5.2.2.2	調製頻度 .....	13
5.2.2.3	保存条件 .....	13
5.2.2.4	安定性 .....	13
5.2.2.5	被験液の分析 .....	13
5.3	試験系及び系統の選択理由 .....	14
5.4	試験動物及び群分け .....	15
5.5	飼育条件 .....	15
5.6	飼料、床敷及び飲料水中の混入物質 .....	16

5.7	動物の識別 .....	16
5.8	投与経路、投与期間、投与回数及び回復期間とそれらの選択理由 .....	16
5.9	投与方法 .....	17
5.10	投与量及び群構成 .....	17
5.11	投与量の設定根拠 .....	17
6.	検査及び方法 .....	17
6.1	一般状態の観察 .....	18
6.2	詳細な一般状態観察、機能検査、握力及び自発運動量の測定 .....	18
6.2.1	詳細な一般状態観察 .....	18
6.2.2	機能検査 .....	18
6.2.3	握力測定 .....	18
6.2.4	自発運動量測定 .....	19
6.3	体重測定 .....	19
6.4	摂餌量測定 .....	19
6.5	臨床検査 .....	19
6.5.1	尿検査 .....	19
6.5.2	臨床検査のための採血 .....	20
6.5.3	血液学検査 .....	21
6.5.4	凝固系検査 .....	21
6.5.5	血液化学検査 .....	22
6.6	病理学検査 .....	22
6.6.1	剖検 .....	22
6.6.2	器官重量測定 .....	22
6.6.3	病理組織学検査 .....	23
7.	データ採取に使用したコンピュータシステム .....	23
8.	統計解析 .....	23
9.	試験結果 .....	24
9.1	死亡動物 .....	24
9.2	一般状態 .....	24
9.3	詳細な一般状態観察、機能検査、握力及び自発運動量の測定 .....	24
9.4	体重 .....	25
9.5	摂餌量 .....	25
9.6	臨床検査 .....	25
9.6.1	尿検査 .....	25
9.6.2	血液学検査 .....	25
9.6.3	凝固系検査 .....	26
9.6.4	血液化学検査 .....	26
9.7	病理学検査 .....	27

B-9244

9.7.1	器官重量 .....	27
9.7.2	剖検所見 .....	27
9.7.3	病理組織学検査 .....	28
10.	考察 .....	29
11.	結論 .....	30
12.	参考文献 .....	30

## 添付資料

Attachment 1	試験成績書（特性および安定性試験） .....	31
Attachment 2	試験成績書（被験液安定性試験） .....	33
Attachment 3	Results of dose analysis.....	34
Attachment 4	Historical control data.....	36

## 図

Figure 1-1~1-4	Body weight .....	38
Figure 2-1~2-4	Food consumption .....	42

## 表

Table 1-1~1-6	Clinical signs.....	46
Table 2-1~2-18	Detailed clinical signs .....	52
Table 2-19, 20	Manipulative test .....	70
Table 2-21, 22	Grip strength .....	72
Table 2-23, 24	Motor activity.....	74
Table 3-1~3-4	Body weight .....	76
Table 4-1~4-4	Food consumption.....	80
Table 5-1~5-21	Urinalysis.....	84
Table 6-1~6-4	Hematology .....	105
Table 7-1~7-4	Coagulation .....	109
Table 8-1~8-6	Blood chemistry.....	113
Table 9-1~9-7	Organ weight.....	119
Table 10-1~10-4	Gross pathological findings .....	126
Table 11-1~11-16	Histopathological findings.....	130

## 付表

Appendix 1-1~1-16	Clinical signs, individual data.....	146
Appendix 2-1~2-60	Detailed clinical signs, individual data.....	162
Appendix 2-61~2-66	Manipulative test, individual data .....	222
Appendix 2-67~2-72	Grip strength, individual data .....	228

B-9244

Appendix 2-73~2-78	Motor activity, individual data.....	234
Appendix 3-1~3-12	Body weight, individual data .....	240
Appendix 4-1~4-12	Food consumption, individual data .....	252
Appendix 5-1~5-25	Urinalysis, individual data.....	264
Appendix 6-1~6-12	Hematology, individual data .....	289
Appendix 7-1~7-12	Coagulation, individual data .....	301
Appendix 8-1~8-12	Blood chemistry, individual data.....	313
Appendix 9-1~9-18	Organ weight, individual data .....	325
Appendix 10-1~10-60	Gross and histopathological findings, individual data .....	343
信頼性保証書 .....		403

B-9244

### 3. 試験実施概要

#### 3.1 試験番号

B-9244

#### 3.2 試験表題

2-メチルヘキササン：ラットを用いた 28 日間反復経口投与毒性試験及び 14 日間回復試験

#### 3.3 試験目的

2-メチルヘキササンをラットに 28 日間反復経口投与した時の毒性を検討する。更に、一部の動物については 14 日間の回復期間を設け、変化の可逆性を検討する。

#### 3.4 規制に関する情報

##### 3.4.1 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」（薬食発 0331 第 8 号、平成 23・03・29 製局第 6 号、環保企発第 110331010 号：平成 23 年 3 月 31 日）

##### 3.4.2 毒性試験ガイドライン

- 「新規化学物質等に係る試験の方法について」（薬食発 0331 第 7 号、平成 23・03・29 製局第 5 号、環保企発第 110331009 号：平成 23 年 3 月 31 日）

##### 3.4.3 動物の福祉

- 「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）
- 「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）
- 「動物実験の適正な実施に向けたガイドライン」（日本学術会議、平成 18 年 6 月 1 日）

本試験は動物実験委員会 (IACUC) の承認を受けて実施した (承認番号 G230293)。

また、試験施設は The Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC) International の認証を受けている。

#### 3.5 試験委託者

厚生労働省医薬局医薬品審査管理課化学物質安全対策室

〒100-8916 東京都千代田区霞が関 1-2-2

試験モニター：■■■■ ■■■■

B-9244

### 3.6 試験受託者

株式会社ボゾリサーチセンター  
〒151-0065 東京都渋谷区大山町 36-7

### 3.7 試験施設

株式会社ボゾリサーチセンター 御殿場研究所  
〒412-0039 静岡県御殿場市かまど 1284

### 3.8 試験責任者

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株式会社ボゾリサーチセンター 御殿場研究所 研究部

### 3.9 試験担当者

被験物質管理責任者 : ■■■■ ■■■■  
試験実施担当責任者 : ■■■■ ■■■■  
臨床検査責任者 : ■■■■ ■■■■  
病理検査責任者 : ■■■■ ■■■■  
化学分析（被験液分析）責任者  
: ■■■■ ■■■■

### 3.10 試験日程

試験開始日 : 2023年 10月 26日  
被験物質入手日 : 2023年 9月 29日 \*  
動物入荷日 : 2023年 10月 30日  
実験開始日（投与開始日）  
: 2023年 11月 10日  
投与終了日 : 2023年 12月 7日  
剖検日  
主群 : 2023年 12月 8日  
回復群 : 2023年 12月 22日  
実験終了日（病理組織学検査終了日）  
: 2024年 2月 20日  
試験終了日 : 2024年 3月 19日

\* : 被験物質は試験開始前に入手したが、入手後は被験物質管理責任者により管理され、試験責任者には2023年11月7日に配布された。



### 3.11 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

#### 1) 病理組織学検査

雄の対照群の 1 例（動物番号 1006）及び雌の 1000 mg/kg 群の 1 例（動物番号 4108）の上皮小体（両側）が病理組織標本とならなかった。しかし、各群とも十分な例数について病理組織学的診断が可能であったことから、これらの逸脱は試験結果の評価に影響を及ぼすものではないと判断した。

### 3.12 資料保存

試験計画書原本（試験計画書変更書を含む）、記録文書、生データ、報告書類（最終報告書の原本を含む）及び標本（被験物質保存試料を含む）は株式会社ボゾリサーチセンター 御殿場研究所の資料保存施設に保存する。なお、その期間は試験終了後 10 年間とする。期間終了後の取り扱いについては、厚生労働省医薬局医薬品審査管理課化学物質安全対策室と株式会社ボゾリサーチセンター間で協議し、その処置を決定する。ただし、臨床検査後の残余生体試料については、試験終了後に廃棄する。

B-9244

3.13 試験責任者の署名



2024年 3月 19日

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株式会社ボゾリサーチセンター 御殿場研究所

#### 4. 要約

2-メチルヘキサンを Sprague-Dawley ラット[Crl:CD(SD)、投与開始時 6 週齢] に 1 日 1 回、28 日間強制経口投与した時の毒性と 14 日間の回復期間による回復性を検討した。雌雄ラットに媒体（コーン油）又は媒体に溶解した 2-メチルヘキサンを 100、300 及び 1000 mg/kg の用量（投与容量 5 mL/kg）で投与した。4 週間投与後に剖検する主群として雌雄各 5 匹を、回復後に剖検する回復群（媒体対照群及び高用量群）として雌雄各 5 匹を用いた。毒性評価指標として、生死及び一般状態の観察、詳細な一般状態観察、機能検査、握力及び自発運動量の測定、体重・摂餌量測定、臨床検査（尿検査、血液学検査、凝固系検査及び血液化学検査）及び病理学検査（器官重量、剖検及び病理組織学検査）を行った。得られた結果を以下に示す。

死亡は認められず、一般状態、詳細な一般状態観察、機能検査、握力及び自発運動量の測定、体重、摂餌量、血液学検査、凝固系検査及び剖検においても 2-メチルヘキサンに関連する変化もみられなかった。

尿検査では、尿沈渣中の小円形上皮細胞の増加が雄の 300 mg/kg 以上の群にみられたが、腎臓における一連の変化に関連するものであった。

血液化学検査では、カルシウム及び総タンパク質の増加が雄の 1000 mg/kg 群にみられた。

病理学検査では、2-メチルヘキサンに関連する所見が腎臓及び肝臓にみられた。腎臓では、尿細管上皮の硝子滴が 100 mg/kg 以上の群に、再生尿細管が 300 mg/kg 以上の群に、顆粒状円柱と重量の増加が雄の 1000 mg/kg 群にみられた。免疫組織化学染色の結果、尿細管上皮の硝子滴は  $\alpha 2u$  グロブリンの蓄積であることが確認され、一連の腎臓における所見は雄ラットに特有の  $\alpha 2u$  グロブリンの蓄積に関連するものと考えられた。

肝臓では 1000 mg/kg 群で雌雄に重量の増加、小葉中心性肝細胞肥大が雄にみられた。

14 日間の回復により 2-メチルヘキサンによる変化は腎臓の再生尿細管及び顆粒状円柱が雄の 1000 mg/kg 群に残存してみられたが、尿細管上皮の硝子滴（ $\alpha 2u$  グロブリンの蓄積）及び肝臓の変化は消失していたことから、本質的には可逆性の変化と判断した。

以上のように、主な変化として肝臓の重量増加が雌雄の 1000 mg/kg に、小葉中心性肝細胞肥大が雄の 1000 mg/kg に、 $\alpha 2u$  グロブリンの蓄積が雄の 100 mg/kg 以上の全ての群に、 $\alpha 2u$  グロブリンの蓄積による尿細管傷害を示唆する変化が雄の 300 mg/kg 以上の群にみられた。雄における  $\alpha 2u$  グロブリンの蓄積に起因する一連の腎臓への影響はヒトへの外挿性がないことを考えると、無毒性量（NOAEL）は雌雄ともに 300 mg/kg と判断した。更に、2-メチルヘキサンによる変化は可逆性のものであることが示された。

## 5. 試験材料及び方法

### 5.1 被験物質及び媒体

#### 5.1.1 被験物質

当試験で使用した被験物質の情報を Attachment 1 に示す。

名称	: 2-メチルヘキサン
メーカー	: ██████████
CAS 番号	: 591-76-4
ロット番号	: ████████
純度 (GC)	: 99.1%
入手量	: 25 mL×25 本
性状	: 無色透明液体
密度	: 0.68
換算係数	: 1.47 (重量から容量への換算)
安定性	: 当試験で使用した被験物質の安定性は、同ロット品について別途実施される安定性試験 (試験番号 A-3515) の結果から確認した。
保存条件	: 冷蔵 (許容範囲: 1°C~10°C、実測値は許容範囲内であった)、遮光、気密
保存場所	: 御殿場研究所 被験物質保存室及び被験物質調製室
取り扱い上の注意	: 皮膚/眼刺激性のある引火性液体のため、防護マスク、防護手袋を着用し、蒸気の吸入や皮膚、眼及び衣類との接触を避ける。
保存試料	: 被験物質約 2 mL を保存試料として保存した。
残余品の処理	: 使用後の残余は全て試験施設で廃棄した。

#### 5.1.2 媒体

名称	: コーン油
規格	: 生化学用
メーカー	: 富士フイルム和光純薬株式会社
ロット番号	: WTF5137
保存条件	: 室温
保存場所	: 御殿場研究所 被験物質調製室

## 5.2 媒体及び被験液の調製

### 5.2.1 媒体の調製

コーン油をそのまま用いた。媒体対照群の投与に用いる媒体は、被験物質を取り扱う前に被験液と同じ日数分を 1 日必要分ずつ褐色ガラス瓶に分注し、被験液と同じ条件で保存した。

B-9244

## 5.2.2 被験液の調製

### 5.2.2.1 調製方法

調製操作はドラフト内で行った。高用量群液（200 mg/mL 液）の調製に必要な被験物質をメスシリンダーに採取（必要重量に換算係数 1.47 を乗じた容量）し、媒体を加えて 200 mg/mL 液とした。中及び低用量群液（60 及び 20 mg/mL 液）は 200 mg/mL 液を段階希釈して調製した。被験液は投与用に 1 日必要分ずつ褐色ガラス瓶に分注した。

### 5.2.2.2 調製頻度

最大 7 日分を一括して調製し、調製後 8 日以内に使用した。

### 5.2.2.3 保存条件

被験液は冷蔵（許容範囲：1°C~10°C、実測値は許容範囲内であった）保存した。

### 5.2.2.4 安定性

株式会社ボゾリサーチセンターにおいて、2-メチルヘキサン（ロット番号 [REDACTED]）の 1 及び 200 mg/mL 液（媒体：コーン油）は褐色ガラス瓶で冷蔵（1°C~10°C）8 日間保存後、更に室温 24 時間保存後の安定性が確認されている（試験番号 A-3515、Attachment 2）。

### 5.2.2.5 被験液の分析

投与 1 日及び 4 週の投与に用いる各濃度の被験液の分析を株式会社ボゾリサーチセンターで、ガスクロマトグラフ（GC）法により行った。表示値に対する割合（平均値）は 99.0%~100.0%（許容範囲：100% ± 20%）であり、許容範囲内であった（Attachment 3）。

分析法の概要を以下に示す。

#### 1) 分析対象物質

2-メチルヘキサン

#### 2) 標準物質

被験物質の一部を標準物質として用いた。

名称 : 2-メチルヘキサン

メーカー : [REDACTED]

ロット番号 : [REDACTED]

保存条件 : 冷蔵（許容範囲：1°C~10°C、実測値は許容範囲内であった）、遮光、気密

保存場所 : 御殿場研究所 被験物質保存室及び分析棟 分析室

#### 3) 1 濃度当たりの採取本数及び採取量

被験液の任意の 1 箇所から 10 mL（1 本/濃度）

B-9244

4) 測定実測試料の調製

分析前に、各被験液から n=3 で採取し、溶媒で以下のように希釈し、測定実測試料を調製した。

濃度 (mg/mL)	一次希釈		二次希釈		希釈率
	被験液採取量 (mL)	最終量 (mL)	一次希釈液採取量 (mL)	最終量 (mL)	
20	1	50	1	20	1000
60	1	100	1	30	3000
200	1	100	1	100	10000

溶媒：アセトン

5) GC システム

GC : 6890N (Agilent Technologies, Inc.)  
オートインジェクタ : 7683 (Agilent Technologies, Inc.)  
データ処理装置 : MSD Chem Station (Agilent Technologies, Inc.)

6) 測定条件

カラム : DB-1 (0.32 mm I.D.× 30 m、膜厚 0.25 μm、  
Agilent Technologies Inc.)  
キャリアガス : He  
流量モード : コンスタントフローモード  
流量 : 1.5 mL/min  
モード (注入方式) : スプリット  
スプリット比 : 20 : 1  
注入口温度 : 105°C  
検出器 : Flame ionization detector (FID)  
検出器温度 : 160°C  
H<sub>2</sub> 流量 : 40 mL/min  
Air 流量 : 360 mL/min  
メイクアップガス流量 (N<sub>2</sub>) : 10 mL/min  
オープン温度 : 50°C (Hold 3 min) → 120°C (30°C/min、Hold 0 min)  
注入量 : 1 μL

### 5.3 試験系及び系統の選択理由

毒性試験ガイドラインでラットの使用が推奨されている。また、この試験に使用される系統のラットは特性がよく知られ、背景資料が豊富であることから選択した。

#### 5.4 試験動物及び群分け

- 動物種 : ラット (SPF)
- 系統 : Sprague-Dawley [CrI:CD(SD)]
- 供給源 : ジャクソン・ラボラトリー・ジャパン株式会社、厚木飼育センター
- 入荷時週齢 : 5 週齢
- 購入匹数 : 雌雄各 34 匹
- 検疫・馴化期間 : 11 日間
- 投与開始時週齢 : 6 週齢
- 供試動物数 : 雌雄各 30 匹 (主群として雌雄各 20 匹及び回復群として雌雄各 10 匹)
- 検疫・馴化期間中の観察 : 全動物について、体重測定を 3 回 (投与開始の 10 及び 9 日前並びに群分け日)、生死の確認、体外表、栄養状態、姿勢、行動及び排泄物の異常などの一般状態観察を 1 日 1 回行った。更に、詳細な一般状態の観察 (1 回、検査の方法については第 6.2 項参照) を行った。
- 供試動物の選択 : 上記の観察結果を基に健康と考えられる動物を選択した。一般状態及び体重推移に異常を示す動物はみられなかった。
- 群分け : 群分け当日 (投与開始の 2 日前) の体重に基づいて層別化し、各群の平均体重ができるだけ均等となるように群分けを行った。動物の割付けはコンピュータを用いたブロック・ランダム化により行った (ブロック配置により必要な群を構成し、試験群及び群内の個体番号を無作為に割当てた)。
- 投与開始時の体重範囲 : 主群及び回復群における動物の体重は雄で 202 g~229 g (平均 214 g)、雌で 147 g~177 g (平均 162 g) であり、各動物の体重は平均値  $\pm 20\%$  以内であった。
- 余剰動物の処置 : 試験から除外し、動物管理部門に移管した。

#### 5.5 飼育条件

- 飼育室の環境 : 温度  $23^{\circ}\text{C} \pm 3^{\circ}\text{C}$  (実測値は許容範囲内であった)、相対湿度  $50\% \pm 20\%$  (実測値は許容範囲内であった)、換気回数 1 時間 10~15 回、照明 1 日 12 時間 (07:00~19:00) の飼育室 (702 号室) で、床敷 (コンフィネスト、株式会社 ファルマ、ロット番号 2350202301) を入れたプラ

- スチックケージ (W 440 × D 275 × H 180 mm) に、同性 2 匹ずつ収容 (ただし、群分け後は各群の動物数が奇数のため、最後のケージは 1 匹) した。
- 飼料 : 固型飼料 CR-LPF (γ 線滅菌、オリエンタル酵母工業株式会社、ロット番号 230713、230809) を、ステンレス製給餌器を用いて自由に摂取させた。
- 飲料水 : 御殿場市営水道水を自動給水装置により自由に摂取させた。
- 環境エンリッチメント : IACUC の指針に従って、適切な環境エンリッチメントを与えた。

## 5.6 飼料、床敷及び飲料水中の混入物質

下記の混入物質に関する分析報告書の結果が基準内であることを確認した。

- 飼料の分析報告書 (ユーロフィン・フード・テストング株式会社、供試全ロット)
- 床敷の分析報告書 (一般財団法人日本食品分析センター、供試全ロット)
- 水道法に準拠した水質の分析報告書 (年 4 回、芝浦セムテック株式会社)

## 5.7 動物の識別

- 小動物用耳標 : 入荷時に 1~999 までの番号が刻印された耳標を装着し、実験期間を通してこれを個体識別の基本とした。
- 動物番号 : 群分け後は、試験群、性、主群・回復群及び群内の個体が区別できるよう、4桁の数字を割り当てた(表1参照)。
- ケージラベル : 群分け後、各飼育ケージには投与量(群)ごとに色分けしたケージラベルをつけ、試験番号、投与経路、投与量、性、動物番号、耳標番号及び剖検予定日を明記した。また、ケージラベルの裏には試験番号、性及び耳標番号のみを記載した。

## 5.8 投与経路、投与期間、投与回数及び回復期間とそれらの選択理由

毒性試験ガイドラインに従い経口投与を選択し、投与期間は 28 日間 (4 週間) とした。投与回数は反復投与毒性試験で一般的に行われている 1 日 1 回 (7 日/週) とした。回復期間は変化の可逆性を検討するのに適切と考えられる 14 日間 (2 週間) とし、この間回復させた。



## 5.9 投与方法

投与方法は、げっ歯類の経口投与に際して一般的な強制経口投与とした。

投与容量は 5 mL/kg とし、フレキシブル胃ゾンデを用いて被験液を胃内に強制経口投与した (08:00~15:00 の間)。媒体対照群には媒体 (コーン油) を同様に投与した。動物ごとの投与液量 (表示単位 : 0.1 mL) は直近の体重を基準に算出した。

## 5.10 投与量及び群構成

投与量は 100、300 及び 1000 mg/kg の 3 用量とし、媒体対照群を加え 4 群構成とした。回復群を媒体対照群と高用量群に設けた。1 群当たりの動物を主群では雌雄各 5 匹、回復群では雌雄各 5 匹とした。群構成を表 1 に示す。

表 1. 群構成

試験群	投与量 (mg/kg)	濃度 (mg/mL)	投与容量 (mL/kg)	性	主群		回復群	
					動物数	動物番号	動物数	動物番号
媒体対照群	0	0	5	雄	5	1001~1005	5	1006~1010
				雌	5	1101~1105	5	1106~1110
低用量群	100	20	5	雄	5	2001~2005	—	—
				雌	5	2101~2105	—	—
中用量群	300	60	5	雄	5	3001~3005	—	—
				雌	5	3101~3105	—	—
高用量群	1000	200	5	雄	5	4001~4005	5	4006~4010
				雌	5	4101~4105	5	4106~4110

## 5.11 投与量の設定根拠

ラット 14 日間経口投与予備試験 (株式会社ボゾリサーチセンター、試験番号 N-3150、投与量 30、100、300 及び 1000 mg/kg) において、雄の 1000 mg/kg 群で血漿中総コレステロール及びリン脂質の増加、A/G 比の減少並びに肝臓重量の増加、雌の 1000 mg/kg 群で血漿中総胆汁酸の増加がみられたが、一般状態や体重への影響はみられなかった。

これらの結果から、当試験の高用量を 1000 mg/kg に設定し、以下、公比約 3 で中及び低用量を 300 及び 100 mg/kg に設定した。

## 6. 検査及び方法

毒性評価群について検査を実施した。

試験日の起算に関しては以下の通りとした。

- 投与 1 日 (Day 1 of dosing) : 投与開始日
- 投与 1 週 (Week 1 of dosing) : 投与 1 から投与 7 日
- 回復 1 日 (Day 1 of recovery) : 回復開始日 (最終投与の翌日)
- 回復 1 週 (Week 1 of recovery) : 回復 1 から回復 7 日

## 6.1 一般状態の観察

全動物について、生死を確認し、体外表、栄養状態、姿勢、行動及び排泄物の異常などの一般状態を観察した。

観察は、投与期間中は1日3回、投与前、投与直後及び投与1~3時間後の間（ただし、土曜日及び休日は投与前と投与直後の2回。また、詳細な一般状態観察の実施日は投与1~3時間後の観察を省略した）、回復期間中は1日1回（午前中）行った。

また、計画剖検日の動物搬出前にも観察を行った。

## 6.2 詳細な一般状態観察、機能検査、握力及び自発運動量の測定

全生存動物について、投与期間中及び回復期間中、1週間に1回（投与1~4時間後の間又は投与期間中と同様の時間帯）詳細な一般状態観察を、投与4週（雄：投与25日、雌：投与26日）及び回復2週（回復13日）に機能検査、握力及び自発運動量測定を実施した。

詳細な一般状態観察及び機能検査については実測値あるいはスコア化した評点法を用いた。また、機器により自動的に記録される自発運動量測定を除く検査時には、観察者に対して投与量などの情報を制限（ブラインド化）するために、ケージラベルを裏返し、更に、動物を個別にケージに収容してランダムに配置した状態で行った。

### 6.2.1 詳細な一般状態観察

#### 1) ケージ内観察

姿勢、痙攣、異常行動

#### 2) 手に持つての観察

ケージからの取り出しやすさ、被毛・皮膚の状態、眼・鼻の分泌物、眼球突出、眼瞼閉鎖状態、可視粘膜、自律神経機能（流涙、立毛、瞳孔径、流涎、異常呼吸）、ハンドリングに対する反応、ハンドリング時の発声

#### 3) オープンフィールド内観察

覚醒状態、痙攣、異常行動、常同行動、歩行、姿勢、身繕い、立ち上がり回数、排泄物（排糞数、排尿数）

### 6.2.2 機能検査

詳細な一般状態観察に続いて、聴覚反応、接近反応、接触反応、痛覚反応、瞳孔反射、空中正向反射、着地開脚幅を検査した。

### 6.2.3 握力測定

機能検査に続いて、CPUゲージ（MODEL-RX-5、アイコーエンジニアリング株式会社）を用いて前肢及び後肢の握力を測定した。

B-9244

#### 6.2.4 自発運動量測定

握力測定に続いて、実験動物用自発運動センサー（NS-AS01、株式会社ニューロサイエンス）を用いて自発運動量を測定した。測定時間は 1 時間とし、10 分間隔及び 0~60 分の測定値を集計した。

#### 6.3 体重測定

全動物について、投与期間中は投与 1 及び 7 日に測定し、以降は 7 日間隔で週 1 回の頻度で投与前に測定した。回復期間中は回復 1、7 及び 14 日に測定した。測定は午前中に行った。

計画剖検日には相対器官重量算出のため、前日から約 16 時間絶食させた後の体重を測定した。

また、投与期間中の体重増加量（投与 1 日から投与 28 日）及び回復期間中の体重増加量（回復 1 日から回復 14 日）を算出した。

#### 6.4 摂餌量測定

全ケージについて投与 1 及び 7 日、以降は 7 日間隔で週 1 回、回復期間中は回復 7 及び 14 日に、給餌量と残餌量の差から 1 日当たりの摂餌量を算出した。餌の測定は午前中（投与期間中は投与前）に行った。投与 1 日は前日からの 1 日量を、それ以外は 6 又は 7 日間の累積摂取量から 1 日当たりの摂餌量を求めた。

#### 6.5 臨床検査

##### 6.5.1 尿検査

以下の動物を検査対象とした。

投与 4 週（投与 27 及び 28 日）：主群の全生存動物

回復 2 週（回復 11 及び 12 日）：回復群の全生存動物

採尿器をセットしたケージに動物を個別に収容し（投与 4 週検査では投与後に収容）、絶食・自由摂水下で 4 時間尿を、次いで自由摂食・自由摂水下でその後の 20 時間の蓄尿を採取し、表 2 に記載した項目を検査した。なお、給水には給水瓶を用いた。

表 2. 尿検査項目

1) 4時間尿についての検査	
検査項目	測定法
pH	マルティスティックス SG 試験紙 <sup>a)</sup>
タンパク質	マルティスティックス SG 試験紙 <sup>a)</sup>
ケトン体	マルティスティックス SG 試験紙 <sup>a)</sup>
グルコース	マルティスティックス SG 試験紙 <sup>a)</sup>
潜血	マルティスティックス SG 試験紙 <sup>a)</sup>
ビリルビン	マルティスティックス SG 試験紙 <sup>a)</sup>
ウロビリノーゲン	マルティスティックス SG 試験紙 <sup>a)</sup>
比重	マルティスティックス SG 試験紙 <sup>a)</sup>
色調	肉眼観察
沈渣	鏡検法
尿量 (4時間量) <sup>注</sup>	容量測定 (単位: mL)
2) 20時間尿についての検査	
検査項目	測定法
尿量 (20時間量) <sup>注</sup>	容量測定 (単位: mL)
使用測定機器	
a) : 尿自動分析装置 クリニテック 500 (Siemens Healthcare Diagnostics Inc.)	

注: 4時間の尿量と20時間尿の尿量を合計して1日の尿量を算出した。

### 6.5.2 臨床検査のための採血

主群 (最終投与の翌日) 及び回復群の計画剖検時に、採血針を用いて以下の表3に従って各検査用として別々に採血した。採血は全ての計画剖検動物から行った。

表 3. 臨床検査のための採血

	血液学検査	凝固系検査	血液化学検査	予備
絶食	前日から一夜 (約 16~21 時間) 絶食			
麻酔	イソフルラン吸入			
採血部位	腹大動脈			
抗凝固剤	EDTA-2K	3.2%クエン酸ナトリウム	ヘパリンナトリウム	なし
採血量	約 1 mL	0.9 mL	約 4 mL	約 3 mL
採血容器	BD Vacutainer (Becton, Dickinson and Company)	インセパック II-W、SMD509SC- クロ (積水メディカル株式会社)	ベノジェクト II ヘパリンナトリウム、2 mL 採血用 (テルモ株式会社)	ベノジェクト II オートセップ 6 mL 採血用 (テルモ株式会社)
試料	全血	血漿	血漿	血清
遠心条件	遠心分離は行わない	3000 rpm、約 1600 ×g、10 分間	3000 rpm、約 1600 ×g、10 分間で得られた上清を同条件で更に 1 回	3000 rpm、約 1600 ×g、10 分間

### 6.5.3 血液学検査

得られた血液について表 4 に記載した項目を検査した。また、鏡検による確認に備え、全生存例について May-Grünwald-Giemsa 染色法による血液塗抹標本を作製したが、鏡検が必要なケースはみられなかったため、鏡検は実施しなかった。

表 4. 血液学検査項目

検査項目	測定方法	単位
赤血球数 (RBC)	フローサイトメトリー法 <sup>a)</sup>	10 <sup>4</sup> (E4)/ $\mu$ L
ヘモグロビン濃度 (HGB)	シアンメトヘモグロビン変法 <sup>a)</sup>	g/dL
ヘマトクリット値 (HCT)	RBC 及び MCV から算出 <sup>a)</sup>	%
平均赤血球容積 (MCV)	フローサイトメトリー法 <sup>a)</sup>	fL
平均赤血球ヘモグロビン量 (MCH)	RBC 及び HGB から算出 <sup>a)</sup>	pg
平均赤血球ヘモグロビン濃度 (MCHC)	HGB 及び HCT から算出 <sup>a)</sup>	g/dL
赤血球容積分布幅 (RDW)	赤血球容積ヒストグラムの標準偏差と MCV から算出 <sup>a)</sup>	%
網赤血球数 (Retic)	フローサイトメトリー法 <sup>a)</sup>	10 <sup>9</sup> (E9)/L
血小板数 (PLT)	フローサイトメトリー法 <sup>a)</sup>	10 <sup>4</sup> (E4)/ $\mu$ L
白血球数 (WBC)	フローサイトメトリー法 <sup>a)</sup>	10 <sup>2</sup> (E2)/ $\mu$ L
白血球分類 <sup>注</sup>	フローサイトメトリー法 <sup>a)</sup>	10 <sup>2</sup> (E2)/ $\mu$ L
使用測定機器		
a) : 総合血液学検査装置 アドヴィア 2120i (Siemens Healthcare Diagnostics Inc.)		

注：リンパ球 (LYMP)、好中球 (NEUT)、好酸球 (EOS)、好塩基球 (BASO)、単球 (MONO) 及び大型非染色球 (LUC)。白血球百分率と白血球数から各分画の実数を算出した。

### 6.5.4 凝固系検査

得られた血漿について表 5 に記載した項目を検査した。

表 5. 凝固系検査項目

検査項目	測定方法	単位
プロトロンビン時間 (PT)	Coagulometric test <sup>a)</sup>	s
活性化部分トロンボプラスチン時間 (APTT)	Coagulometric test <sup>a)</sup>	s
フィブリノゲン量 (FIB)	Coagulometric test <sup>a)</sup>	mg/dL
使用測定機器		
a) : 血液凝固自動分析装置 ACL TOP 300 CTS (Instrumentation Laboratory Corporation)		

## 6.5.5 血液化学検査

得られた血漿について表 6 に記載の項目を検査した。

表 6. 血液化学検査項目

検査項目	測定方法	単位
アスパラギン酸アミノトランスフェラーゼ (AST)	UV-rate 法 <sup>a)</sup>	IU/L
アラニンアミノトランスフェラーゼ (ALT)	UV-rate 法 <sup>a)</sup>	IU/L
乳酸デヒドロゲナーゼ (LDH)	UV-rate 法 <sup>a)</sup>	IU/L
アルカリホスファターゼ (ALP)	Bessey-Lowry 法 <sup>a)</sup>	IU/L
$\gamma$ -グルタミルトランスペプチダーゼ ( $\gamma$ -GTP)	L- $\gamma$ -グルタミル-3-カルボキシ-4-ニトロアニリド法 <sup>a)</sup>	IU/L
総コレステロール (T-CHO)	CEH-COD-POD 法 <sup>a)</sup>	mg/dL
トリグリセライド (TG)	LPL-GK-GPO-POD 法 <sup>a)</sup>	mg/dL
リン脂質 (PL)	PLD-ChOD-POD 法 <sup>a)</sup>	mg/dL
総ビリルビン (T-BIL)	ビリルビンオキシダーゼ法 <sup>a)</sup>	mg/dL
総胆汁酸 (T-BA)	3 $\alpha$ -ヒドロキシステロイドデヒドロゲナーゼ (3 $\alpha$ -HSD) 法 <sup>a)</sup>	$\mu$ mol/L
グルコース (GLU)	グルコースデヒドロゲナーゼ法 <sup>a)</sup>	mg/dL
尿素窒素 (BUN)	Urease-LEDH 法 <sup>a)</sup>	mg/dL
クレアチニン (CRNN)	Creatininase-creatinase-sarcosine oxidase-POD 法 <sup>a)</sup>	mg/dL
ナトリウム (Na)	イオン選択電極法 <sup>a)</sup>	mmol/L
カリウム (K)	イオン選択電極法 <sup>a)</sup>	mmol/L
塩素 (Cl)	イオン選択電極法 <sup>a)</sup>	mmol/L
カルシウム (Ca)	OCPC 法 <sup>a)</sup>	mg/dL
無機リン (P)	PNP-XOD-POD 法 <sup>a)</sup>	mg/dL
総タンパク質 (TP)	Biuret 法 <sup>a)</sup>	g/dL
アルブミン (ALB)	BCG 法 <sup>a)</sup>	g/dL
A/G 比 (A/G)	総タンパク質及びアルブミンから算出	
使用測定機器		
a) : 臨床化学自動分析装置 TBA-120FR (キヤノンメディカルシステムズ株式会社)		

## 6.6 病理学検査

### 6.6.1 剖検

主群（最終投与の翌日）又は回復群の計画剖検時に、前日から一夜絶食させた全生存動物について、臨床検査のための採血後に腹大動脈からの放血により安楽死させ、外表及び全ての内部器官を詳細に観察した。

### 6.6.2 器官重量測定

全ての計画剖検動物について、以下に示す器官の重量（絶対重量）を測定するとともに、絶対重量と剖検時の体重に対する相対重量を算出した。\*を付した両側性の器官については左右一緒に測定した。

脳、下垂体、甲状腺\*（上皮小体を含む）、副腎\*、胸腺、脾臓、心臓、肺、唾液腺\*（顎下腺+舌下腺）、肝臓、腎臓\*、精巣\*、精巣上体\*、前立腺、精嚢（凝固腺を含む）、卵巣\*、子宮

### 6.6.3 病理組織学検査

全ての動物について以下に示す全器官をリン酸緩衝 10%ホルマリン液で固定した。ただし、眼球及び視神経はリン酸緩衝 3%グルタルアルデヒド・2.5%ホルマリン液で固定した後、精巣及び精巣上体は Davidson 変法液で固定した後、リン酸緩衝 10%ホルマリン液で保存した。全組織をパラフィンに包埋し、薄切後ヘマトキシリン・エオジン染色 (HE) 標本を作製した。

このうち、媒体対照群と高用量群の組織について鏡検した。腎臓及び肝臓 (雄のみ) については、被験物質投与の影響が疑われたため、中及び低用量群の動物も鏡検した。両側性器官のうち\*を付した器官については片測を鏡検し、他は両側を鏡検した。

非腫瘍性病変の重篤度については 5 段階で評価した (著変無し Not remarkable、軽微 Minimal、軽度 Mild、中等度 Moderate、高度 Severe)。

また、腎臓尿細管中の好酸性小滴を同定する目的で、雄の媒体対照群及び高用量群の代表例 (動物番号 1001、1002、4001、4002) についてパラフィン包埋した組織から切片を作製し、抗  $\alpha 2u$  グロブリン抗体を用いた免疫組織化学染色を施して鏡検した。

脳 (大脳、小脳、橋)、延髄、脊髄 (頸部、胸部、腰部)、坐骨神経\*、視神経、眼球、ハーダー腺、下垂体、甲状腺、上皮小体\*、副腎、胸腺、脾臓、顎下リンパ節\*、腸間膜リンパ節、パイエル板 (回腸)、心臓、胸大動脈、気管、肺 (気管支を含む)、舌、食道、胃、十二指腸、空腸、回腸、盲腸、結腸、直腸、顎下腺、舌下腺、肝臓、膵臓、腎臓、膀胱、精巣、精巣上体、前立腺、精嚢 (凝固腺を含む)、卵巣、子宮 (頸部及び角部)、膣、乳腺 (鼠径部)、胸骨、大腿骨\*、胸骨骨髓、大腿骨骨髓\*、大腿四頭筋\*、皮膚\* (鼠径部)、肉眼的異常部位他に、喉頭、鼻腔及び個体識別部位 (耳標を装着した耳介) を保存した。

## 7. データ採取に使用したコンピュータシステム

- MiTOX-BOZO システム (Version 10.4.1.1、三井 E&S システム技研株式会社)
- PATHOS5 システム (Pathology Operating Systems Ltd.)

## 8. 統計解析

解析には SAS Release 9.1.3 (SAS Institute Inc.) を使用した。について以下の手順で検定を行った。

- 1) 計量データ (オープンフィールド内観察の定量的項目、機能検査における着地開脚幅、握力、自発運動量、体重/体重増加量、摂餌量、尿量、血液学検査、凝固系検査、血液化学検査及び器官重量)

<投与期間中/終了時のデータ>

まず、各群の平均値と標準偏差を求め、Bartlett 検定により等分散性の検定を行った (有意水準 0.01)。その結果、等分散性が認められた場合は Dunnett 検定により媒体対照群と被験物質各群の平均値の差について多重比較を行い (有意水準 0.05 及び 0.01、両側)、等分散性が認められなかった場合は Steel の検定により

媒体対照群と被験物質各群の平均順位の差について多重比較を行った（有意水準 0.05 及び 0.01、両側）。

<回復期間中／終了時のデータ>

まず、各群の平均値と標準偏差を求め、F 検定により等分散性の検定を行った（有意水準 0.05、上側）。その結果、等分散性が認められた場合は Student の t 検定により媒体対照群と被験物質群の間で平均値の差について対比較を行い（有意水準 0.05 及び 0.01、両側）、等分散性が認められなかった場合は Aspin-Welch の t 検定により媒体対照群と被験物質群の間で平均値の差について対比較を行った（有意水準 0.05 及び 0.01、両側）。

2) スコア化データ（詳細な一般状態及び機能検査のスコア化データ）

<投与期間中のデータ>

媒体対照群と被験物質投与各群との間で Steel の検定により多重比較を行った（有意水準 0.05 及び 0.01、両側）。

<回復期間中のデータ>

媒体対照群と被験物質投与群との間で Wilcoxon の順位和検定により対比較を行った（有意水準 0.05 及び 0.01、両側）。

## 9. 試験結果

### 9.1 死亡動物

投与期間及び回復期間を通じて雌雄いずれの群にも死亡／瀕死はみられなかった。

### 9.2 一般状態

成績を Table 1-1~1-6 及び Appendix 1-1~1-16 に示す。

1) 投与期間

雌雄ともに 2-メチルヘキササンによる一般状態の異常はみられなかった。

2) 回復期間

雌雄ともに 2-メチルヘキササンによる一般状態の異常はみられなかった。

### 9.3 詳細な一般状態観察、機能検査、握力及び自発運動量の測定

成績を Table 2-1~2-24 及び Appendix 2-1~2-78 に示す。

1) 投与期間

投与 4 週の自発運動量の測定において、20~30 分及び 0~60 分の自発運動量の減少が雄の 1000 mg/kg 群に、40~50 分の自発運動量の増加が雌の 1000 mg/kg 群にみられた。しかし、いずれも個体別値は背景値（Attachment 4）に収まることから、生理的変動と判断した。

2) 回復期間

雌雄ともに 2-メチルヘキササンによる所見はみられなかった。



## 9.4 体重

成績を Fig 1-1~1-4、Table 3-1~3-4 及び Appendix 3-1~3-12 に示す。

### 1) 投与期間

雌雄ともに 2-メチルヘキサンによる体重への影響はみられなかった。

### 2) 回復期間

雌雄ともに 2-メチルヘキサンによる体重への影響はみられなかった。

## 9.5 摂餌量

成績を Fig 2-1~2-4、Table 4-1~4-4 及び Appendix 4-1~4-12 に示す。

### 1) 投与期間

雌雄ともに 2-メチルヘキサンによる摂餌量への影響はみられなかった。

### 2) 回復期間

雌雄ともに 2-メチルヘキサンによる摂餌量への影響はみられなかった。

## 9.6 臨床検査

### 9.6.1 尿検査

成績を Table 5-1~5-21 及び Appendix 5-1~5-25 に示す。

#### 1) 投与 4 週

結果の総括を表 7 に示す。

表 7. 2-メチルヘキサンに関連する尿検査の総括（投与 4 週）

性	雄				雌			
	0	100	300	1000	0	100	300	1000
投与量 (mg/kg)	0	100	300	1000	0	100	300	1000
動物数	5	5	5	5	5	5	5	5
小円形上皮細胞 <sup>a)</sup>								
-	5	4	2	0	5	5	5	5
+/-	0	1	2	3	0	0	0	0
1+	0	0	1	2	0	0	0	0

a) : 表中の値は当該所見を示す動物の例数を示す。

尿沈渣中の小円形上皮細胞 (+1 以上) の増加が雄の 300 mg/kg 以上の群にみられた。

雌では 2-メチルヘキサンによる所見はみられなかった。

#### 2) 回復 2 週

雌雄ともに 2-メチルヘキサンによる所見はみられなかった。

### 9.6.2 血液学検査

成績を Table 6-1~6-4 及び Appendix 6-1~6-12 に示す。

#### 1) 投与期間終了時

雌雄ともに 2-メチルヘキサンによる所見はみられなかった。

## 2) 回復期間終了時

雌雄ともに2-メチルヘキサンによる所見はみられなかった。

なお、好酸球数の有意な減少が雄の 1000 mg/kg 群にみられたが、投与期間終了時にはみられなかった変化であり、関連する病理組織学的変化もみられなかったことから、偶発的な変動と判断した。

## 9.6.3 凝固系検査

成績を Table 7-1~7-4 及び Appendix 7-1~7-12 に示す。

## 1) 投与期間終了時

雌雄ともに2-メチルヘキサンによる所見はみられなかった。

なお、PT の有意な延長が雌の 100 mg/kg 群にみられたが、用量との関連性がないことから被験物質との関連性はないと判断した。

## 2) 回復期間終了時

雌雄ともに2-メチルヘキサンによる所見はみられなかった。

## 9.6.4 血液化学検査

成績を Table 8-1~8-6 及び Appendix 8-1~8-12 に示す。

## 1) 投与期間終了時

結果の総括を表 8 に示す。

表 8. 2-メチルヘキサンに関連する血液化学検査の総括（投与期間終了時）

性	雄				雌				
	投与量 (mg/kg)	0	100	300	1000	0	100	300	1000
動物数		5	5	5	5	5	5	5	5
Ca (mg/dL)		10.9	10.9	10.8	11.5*	10.1	10.2	10.3	10.3
TP (g/dL)		6.2	6.3	6.2	6.7**	6.1	5.9	6.1	6.3

表中の値は平均値を示す。

\* : p<0.05、\*\* : p<0.01（媒体対照群との間に有意差あり）

カルシウム及び総タンパク質の増加が雄の 1000 mg/kg 群にみられた。

雌では、2-メチルヘキサンによる所見はみられなかった。

なお、トリグリセライド、グルコース及び塩素の有意な減少が雄の 1000 mg/kg 群に、カリウムの有意な増加が雌の 1000 mg/kg 群にみられたが、それぞれの個体別値は背景値（Attachment 4）に収まることから、生理的変動と判断した。また、ALP の有意な減少及びカリウムの有意な増加が雌の 100 mg/kg 群にみられたが、用量との関連性がないことから被験物質との関連性はないと判断した。

## 2) 回復期間終了時

雌雄ともに2-メチルヘキサンによる所見はみられなかった。

なお、A/G 比の有意な減少が雄の 1000 mg/kg 群に、総コレステロール及びリン脂質の有意な増加並びに ALT 及び尿素窒素の有意な減少が雌の 1000 mg/kg 群に

みられたが、投与期間終了時にはみられなかった変化であり、関連する病理組織学的変化もみられなかったことから、偶発的な変動と判断した。

## 9.7 病理学検査

### 9.7.1 器官重量

成績を Table 9-1~9-7 及び Appendix 9-1~9-18 に示す。

#### 1) 投与期間終了時

結果の総括を表 9 に示す。

表 9. 2-メチルヘキササンに関連する器官重量の総括（投与期間終了時）

性	雄				雌				
	投与量 (mg/kg)	0	100	300	1000	0	100	300	1000
動物数		5	5	5	5	5	5	5	5
FBW (g)		368	357	369	359	217	230	222	227
腎臓	絶対(g)	2.69	2.84	3.02	3.44**	1.68	1.87	1.71	1.76
	相対(%)	0.73	0.80	0.82	0.95**	0.78	0.81	0.77	0.77
肝臓	絶対(g)	10.43	10.20	11.28	14.26**	6.21	6.44	6.53	7.09*
	相対(%)	2.82	2.86	3.06	3.97**	2.86	2.80	2.94	3.12*

表中の値は平均値を示す。

FBW：剖検時の最終体重

\*：p<0.05、\*\*：p<0.01（媒体対照群との間に有意差あり）

2-メチルヘキササンによる所見が腎臓（雄のみ）及び肝臓にみられた。

腎臓：絶対重量及び相対重量の増加が雄の 1000 mg/kg 群にみられた。

肝臓：絶対重量及び相対重量の増加が雌雄の 1000 mg/kg 群にみられた。

他に、雄の 1000 mg/kg 群で精巣上体の絶対重量の有意な減少がみられたが、絶対重量のみの変化であり、2-メチルヘキササンの影響ではないと判断した。

#### 2) 回復期間終了時

雌雄ともに 2-メチルヘキササンによる所見はみられなかった。

なお、雄の 1000 mg/kg 群で唾液腺及び肺の絶対重量の有意な減少並びに下垂体及び肝臓の相対重量の有意な増加がみられたが、絶対又は相対重量のみの変化であり、2-メチルヘキササンの影響ではないと判断した。

### 9.7.2 剖検所見

成績を Table 10-1~10-4 及び Appendix 10-1~10-60 に示す。

#### 1) 投与期間終了時

雌雄ともに 2-メチルヘキササンによる所見はみられなかった。

## 2) 回復期間終了時

雌雄ともに2-メチルヘキサンによる所見はみられなかった。

## 9.7.3 病理組織学検査

成績を Table 11-1~11-16 及び Appendix 10-1~10-60 に示す。

## 1) 投与期間終了時

2-メチルヘキサンに関連する所見が腎臓及び肝臓にみられた。その総括を表 10 に示す。

表 10. 2-メチルヘキサンに関連する病理組織所見の総括（投与期間終了時）

性	投与量 (mg/kg)	雄				雌			
		0	100	300	1000	0	100	300	1000
	動物数	5	5	5	5	5	5	5	5
腎臓									
	再生尿細管	0	1	2	3	0	/	/	0
	軽微	0	1	1	2	0	/	/	0
	軽度	0	0	1	1	0	/	/	0
	硝子滴、尿細管上皮	0	3	5	5	0	/	/	0
	軽微	0	3	1	0	0	/	/	0
	軽度	0	0	4	5	0	/	/	0
	顆粒状円柱	0	0	0	2	0	/	/	0
	軽微	0	0	0	2	0	/	/	0
	α2u グロブリン陽性小滴 <sup>a)</sup>	0	/	/	2	/	/	/	/
	有り	0	/	/	2	/	/	/	/
肝臓									
	小葉中心性肝細胞肥大	0	0	0	5	0	/	/	0
	軽微	0	0	0	1	0	/	/	0
	軽度	0	0	0	4	0	/	/	0

表中の数値は当該所見を示した例数を示す。

a) : 雄の媒体対照群及び高用量群から各 2 例について免疫組織化学染色を施して鏡検した。

/ : 鏡検せず

腎臓 : 再生尿細管及び尿細管上皮の硝子滴は背景的にみられる変化であるが、雄の 300 mg/kg 以上の群で再生尿細管の程度の、100 mg/kg 以上の群で尿細管上皮の硝子滴の頻度及び程度の増悪化がみられた。軽微な顆粒状円柱が雄の 1000 mg/kg 群にみられた。尿細管上皮の硝子滴は α2u グロブリン陽性小滴であった。

肝臓 : 軽微又は軽度な小葉中心性肝細胞肥大が雄の 1000 mg/kg 群にみられた。

## 2) 回復期間終了時

2-メチルヘキサンに関連する所見が腎臓にみられた。その総括を表 11 に示す。

表 11. 2-メチルヘキサンに関連する病理組織所見の総括（回復期間終了時）

性	雄		雌	
	0	1000	0	1000
投与量 (mg/kg)	0	1000	0	1000
動物数	5	5	5	5
腎臓				
再生尿細管	0	5	0	0
軽微	0	2	0	0
軽度	0	3	0	0
顆粒状円柱	0	1	0	0
軽微	0	1	0	0

表中の数値は当該所見を示した例数を示す。

/: 鏡検せず

腎臓 : 再生尿細管の程度の増悪化及び軽微な顆粒状円柱が雄の 1000 mg/kg 群にみられた。

その他の所見は当該系統及び週齢のラットで自然発生的にみられる変化であり、また、用量の増加に伴う頻度の偏りがないことから、2-メチルヘキサンに関連した変化ではないと判断した。

## 10. 考察

2-メチルヘキサンによる主な変化が肝臓及び腎臓にみられた。

肝臓では重量増加が雌雄の 1000 mg/kg に、小葉中心性肝細胞肥大が雄の 1000 mg/kg にみられた。

腎臓では雄にのみ以下の変化がみられた。すなわち、尿細管上皮の硝子滴（免疫組織化学染色の結果より、 $\alpha 2u$  グロブリンの蓄積による変化であることが確認された）が雄の 100 mg/kg 以上の群に、再生尿細管が雄の 300 mg/kg 以上の群に、腎臓重量の増加と顆粒状円柱が雄の 1000 mg/kg 群にみられた。また、尿沈渣中に尿細管上皮由来と考えられる小円形上皮細胞がみられ、尿細管障害に伴う変化と考えられた。 $\alpha 2u$  グロブリンは性成熟とともに雄ラットの肝臓で合成されるタンパク質であり、種々の化学物質と結合することで腎臓の尿細管上皮に蓄積し<sup>1)</sup>、顆粒状円柱<sup>1)</sup>や、尿細管傷害からの修復像と考えられる再生尿細管がみられることが知られている<sup>2)</sup>。したがって、本試験でみられた腎臓の病変はいずれも雄ラットに特有な  $\alpha 2u$  グロブリンの蓄積に起因する変化であり、ヒトへの外挿性はないことから、毒性ではないと考えられた。

他に、血液化学検査においてカルシウム及び総タンパク質の増加が雄の 1000 mg/kg 群にみられた。いずれの個体別値も背景値（Attachment 4）を上回り、2-メチルヘキサンの影響が疑われたが、いずれも軽微な変化であり、関連する病理組織学的変化もみられないことから毒性学的意義のない変化と判断した。

14 日間の回復により 2-メチルヘキサンによる変化は腎臓の再生尿細管及び顆粒状円柱が雄に残存してみられたが、尿細管上皮の硝子滴（ $\alpha 2u$  グロブリンの蓄積）及び肝臓の変化は消失していたことから、本質的には可逆性の変化と判断した。

## 11. 結論

主な変化として肝臓の重量増加が雌雄の 1000 mg/kg に、小葉中心性肝細胞肥大が雄の 1000 mg/kg に、 $\alpha$ 2u グロブリンの蓄積が雄の 100 mg/kg 以上の全ての群に、 $\alpha$ 2u グロブリンの蓄積による尿細管傷害を示唆する変化が雄の 300 mg/kg 以上の群にみられた。雄における  $\alpha$ 2u グロブリンの蓄積に起因する一連の腎臓への影響はヒトへの外挿性がないことを考えると、無毒性量 (NOAEL) は雌雄ともに 300 mg/kg と判断した。更に、2-メチルヘキササンによる変化は可逆性のものであることが示された。

## 12. 参考文献

- 1) Frazier KS, et al. Proliferative and Nonproliferative Lesions of the Rat and Mouse Urinary System. *Toxicol Pathol* 2012; 40: 14S-86S.
- 2) Uwagawa S, et al. Exfoliated Cells in the Urine Reflect Transient and Sustained Elevation of Cell Proliferation in Rat  $\alpha$ 2u-Globulin Nephropathy. *J Toxicol Pathol* 1999; 12: 59-64.

試験成績書  
2-メチルヘキサンの特性及び安定性試験

試験番号 : A-3515  
被験物質 : 2-メチルヘキサン (ロット番号 XXXXXXXXXX)  
保存条件 : 冷蔵 (許容範囲: 1°C~10°C)、遮光、気密  
試験施設 : 株式会社ボゾリサーチセンター 御殿場研究所  
測定日 : 2023年10月18日 (特性試験)  
          2023年12月20日 (安定性試験)

測定項目 : 赤外吸収スペクトル測定法

判定基準 (安定性) : 安定性試験で得られた赤外吸収スペクトルが特性試験で得られたスペクトルと同等であること。

結果 : 安定性試験で得られた赤外吸収スペクトルは、特性試験で得られたスペクトルと同等であった。  
赤外吸収スペクトルは次ページに示す。

判定 : 適

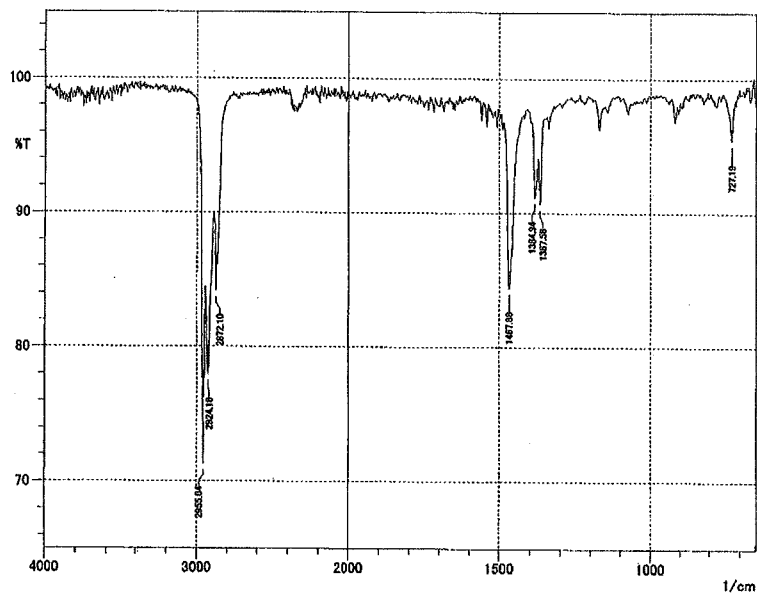
GLP : 「新規化学物質等に係る試験を実施する試験施設に関する基準」(平成23年3月31日:薬食発0331第8号、平成23・03・29製局第6号、環保企発第110331010号)

XXXXXXXXXX 2023年12月26日  
試験責任者  
株式会社ボゾリサーチセンター 御殿場研究所

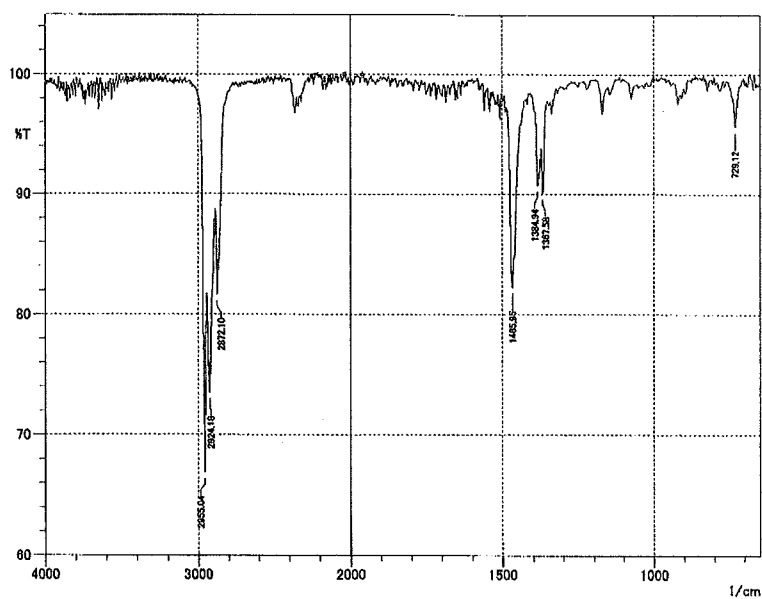
試験成績書  
2-メチルヘキサンの特性及び安定性試験

試験番号 : A-3515

特性試験 (測定日: 2023年10月18日)



安定性試験 (測定日: 2023年12月20日)





試験成績書  
被験液中 2-メチルヘキサンの安定性試験

試験番号 : A-3515  
被験物質 : 2-メチルヘキサン (ロット番号 XXXXXXXXXX)  
媒体 : コーン油  
形態 : 溶液

測定対象物質 : 2-メチルヘキサン

保存条件 : 褐色ガラス瓶にて冷蔵 (許容範囲: 1°C~10°C) 8 日間、その後、室温 (許容範囲: 1°C~30°C) で 24 時間保存。

判定基準 : 安定性として、残存率 [調製直後の測定濃度の平均値 (100) に対する保存後の測定濃度の平均値の割合] が 100.0% ± 10.0% 以内。

結果 :

被験液	No.	測定濃度 (mg/mL)	
		調製直後	保存後*
1 mg/mL 液	1	1.01	1.01
	2	0.998	1.02
	3	1.02	1.03
	平均値	1.01	1.02
	残存率 (%)	(100)	101.0
200 mg/mL 液	1	202	206
	2	200	206
	3	201	205
	平均値	201	206
	残存率 (%)	(100)	102.5

\* : 冷蔵 8 日間+室温 24 時間保存後

判定 : 適

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」 (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)

XXXXXXXXXX  
試験責任者  
株式会社ボゾリサーチセンター 御殿場研究所

2023 年 11 月 6 日

B-9244  
Attachment 3 (1/2)

### RESULT OF ANALYSIS

Study number: B-9244  
Item: Concentration  
Stage: Day 1 of dosing  
Date of analysis: 8 November 2023

Test sample  
Test article: 2-Methylhexane (Lot number: XXXXXXXXXX)  
Form: Solution  
Vehicle: Corn oil  
Date of preparation: 8 November 2023

Analyte: 2-Methylhexane

Acceptance criteria  
Concentration: Proportion to nominal concentration should be within  $100\% \pm 20\%$  (evaluated by the mean value).

Results:

Nominal concentration (mg/mL)	No.	Determined concentration (mg/mL)		Proportion to the nominal concentration (%)
		Each value	Mean	
20	1	19.9	19.8	99.0
	2	19.7		
	3	19.8		
60	1	59.5	59.7	99.5
	2	59.8		
	3	59.9		
200	1	199	200	100.0
	2	204		
	3	198		

Judgment: Passed

### RESULT OF ANALYSIS

Study number: B-9244  
Item: Concentration  
Stage: Week 4 of dosing  
Date of analysis: 4 December 2023

Test sample

Test article: 2-Methylhexane (Lot number: ██████████)  
Form: Solution  
Vehicle: Corn oil  
Date of preparation: 4 December 2023

Analyte: 2-Methylhexane

Acceptance criteria

Concentration: Proportion to nominal concentration should be within 100% ± 20% (evaluated by the mean value).

Results:

Nominal concentration (mg/mL)	No.	Determined concentration (mg/mL)		Proportion to the nominal concentration (%)
		Each value	Mean	
20	1	20.0	20.0	100.0
	2	20.1		
	3	19.9		
60	1	60.3	60.0	100.0
	2	59.9		
	3	59.9		
200	1	200	200	100.0
	2	200		
	3	200		

Judgment: Passed

Historical Control Data  
(BoZo Research Center Inc.)

Period: From April 2018 to March 2023  
Species: Rats  
Strain: Crl:CD(SD)  
Age (week): 6-10  
Route of administration: Oral  
Fasting: Overnight before necropsy  
Food: CR-LPF (pelleted diet)

Motor Activity

Parameters	Sex	No. of sample	Mean	S.D.	-2 S.D.	+2 S.D.	Min	Max
0 to 60 minutes	Male	17	948	373	203	1693	371	1657
20 to 30 minutes	Male	17	159	124	0	407	2	365
40 to 50 minutes	Female	17	130	119	0	368	0	309

Blood Chemistry

Parameters	Sex	No. of sample	Mean	S.D.	-2 S.D.	+2 S.D.	Min	Max
TG (mg/dL)	Male	519	52	21	10	94	13	141
GLU (mg/dL)	Male	599	124	23	78	170	75	243
K (mmol/L)	Female	446	3.6	0.3	3.1	4.1	2.8	4.4
Cl (mmol/L)	Male	519	105	2	102	109	101	110
Ca (mg/dL)	Male	519	10.7	0.3	10.0	11.3	9.6	11.8
TP (g/dL)	Male	599	6.0	0.2	5.6	6.5	4.8	6.9

Historical Control Data  
(BoZo Research Center Inc.)

Period: From April 2018 to March 2023  
Species: Rats  
Strain: CrI:CD(SD)  
Age (week): 11-15  
Route of administration: Oral  
Fasting: Overnight before necropsy  
Food: CR-LPF (pelleted diet)

Hematology

Parameters	Sex	No. of sample	Mean	S.D.	-2 S.D.	+2 S.D.	Min	Max
EOS (10E2/ $\mu$ L)	Male	136	1.3	0.6	0.1	2.5	0.4	5.9

Blood Chemistry

Parameters	Sex	No. of sample	Mean	S.D.	-2 S.D.	+2 S.D.	Min	Max
ALT (IU/L)	Female	136	32	7	17	47	17	66
T-CHO (mg/dL)	Female	136	78	15	49	108	47	111
PL (mg/dL)	Female	104	145	23	98	191	88	209
BUN (mg/dL)	Female	136	19	3	12	25	9	30
A/G	Male	75	1.2	0.1	1.0	1.4	1.0	1.4

Figure 1 - 1

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Body weight  
Sex : Male  
Period : Administration Day 1-29

Study No. : B-9244

Species : Rat

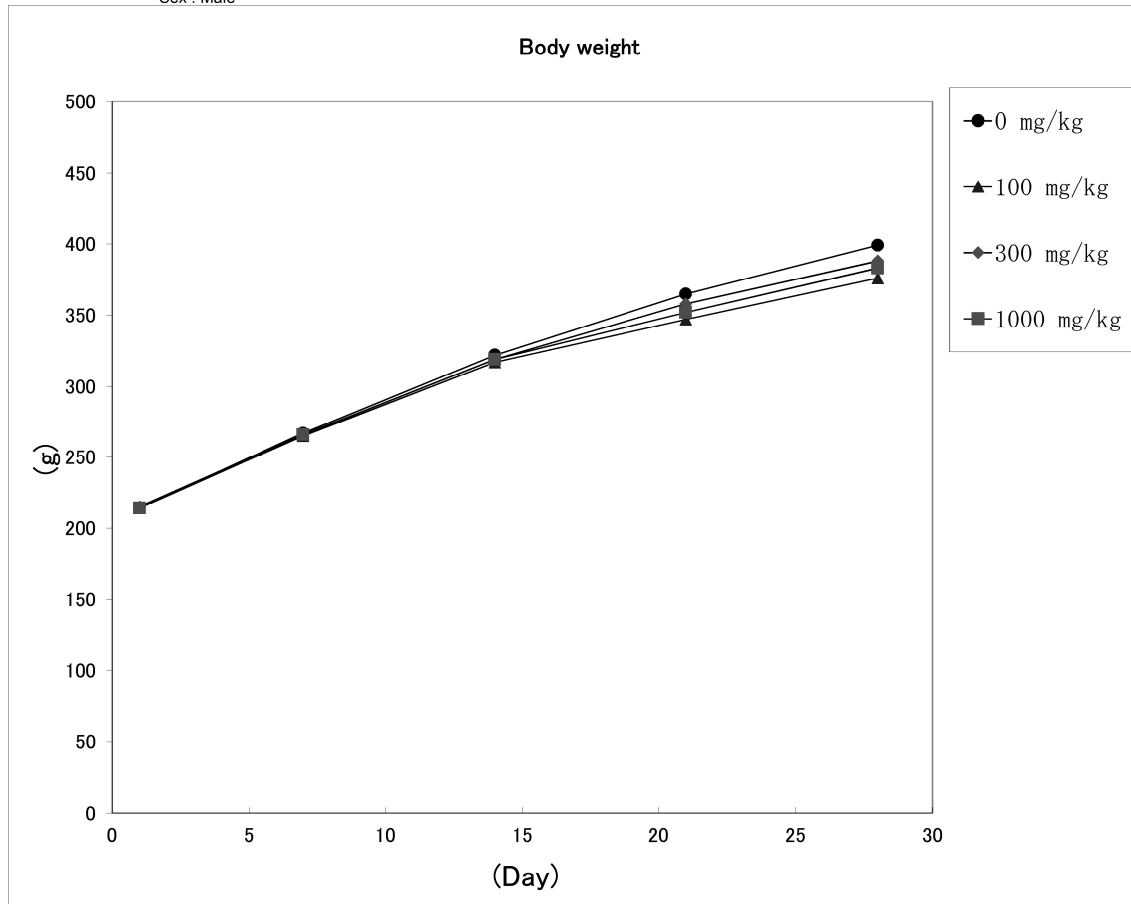


Figure 1 - 2

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Body weight  
Sex : Male  
Period : Recovery Day 1-15

Study No. : B-9244

Species : Rat

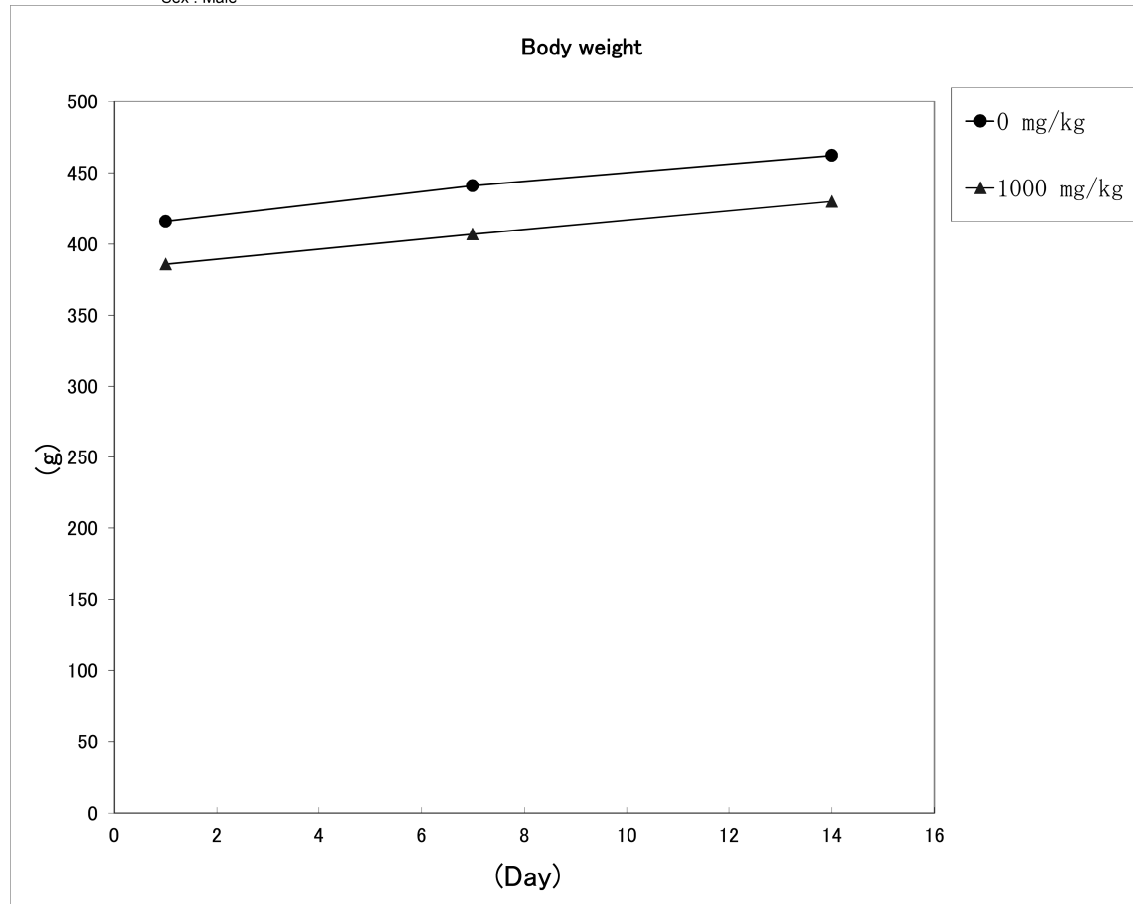


Figure 1 - 3

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Body weight  
Sex : Female  
Period : Administration Day 1-29

Study No. : B-9244

Species : Rat

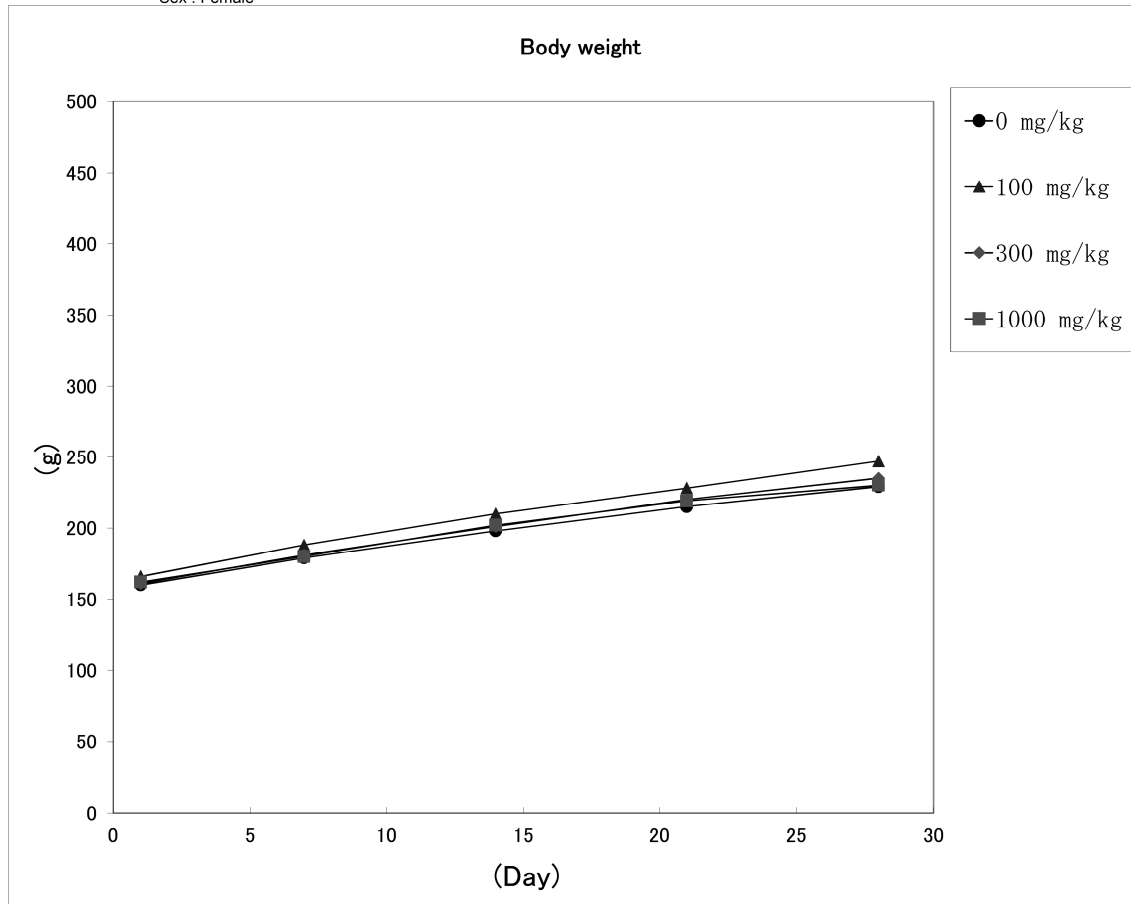




Figure 1 - 4

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Body weight  
Sex : Female  
Period : Recovery Day 1-15

Study No. : B-9244

Species : Rat

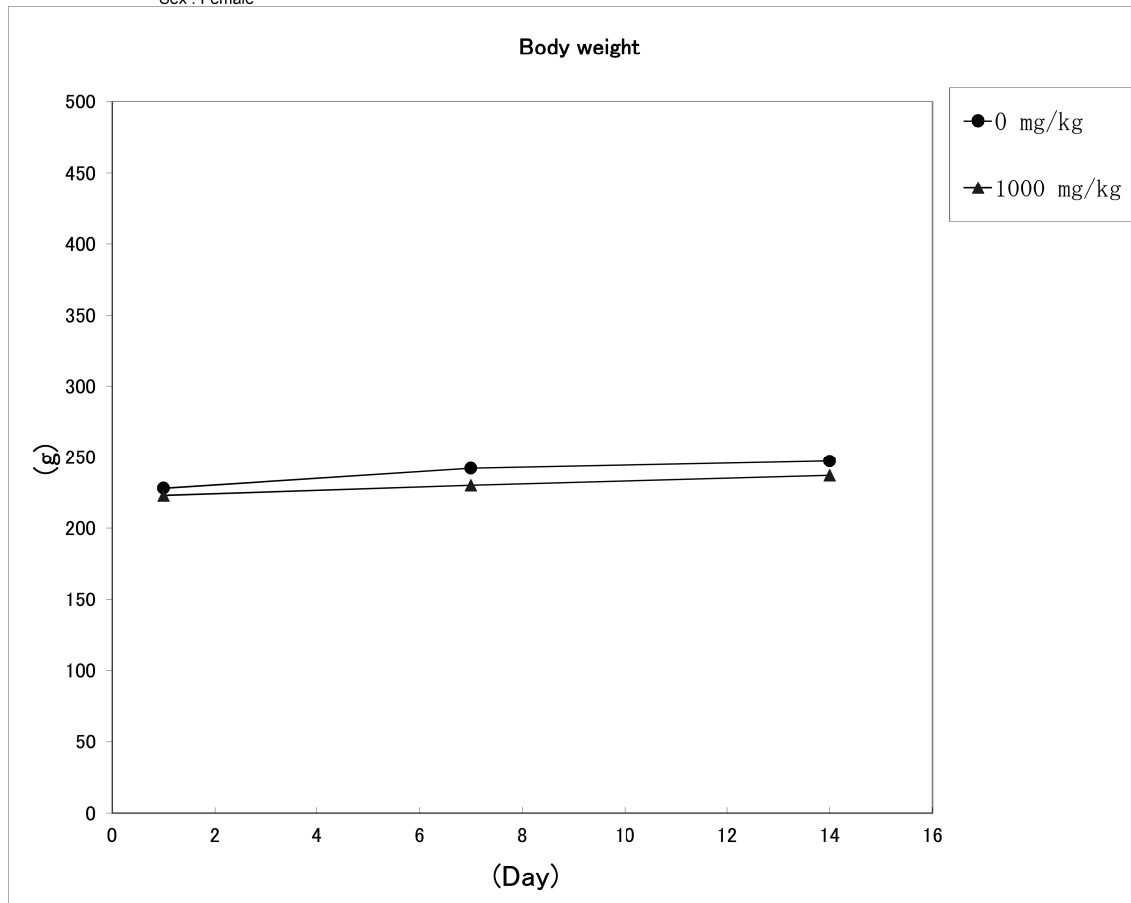


Figure 2 - 1

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Food consumption  
Sex : Male  
Period : Acclimation Day -1-1, Administration Day 1-29

Study No. : B-9244

Species : Rat

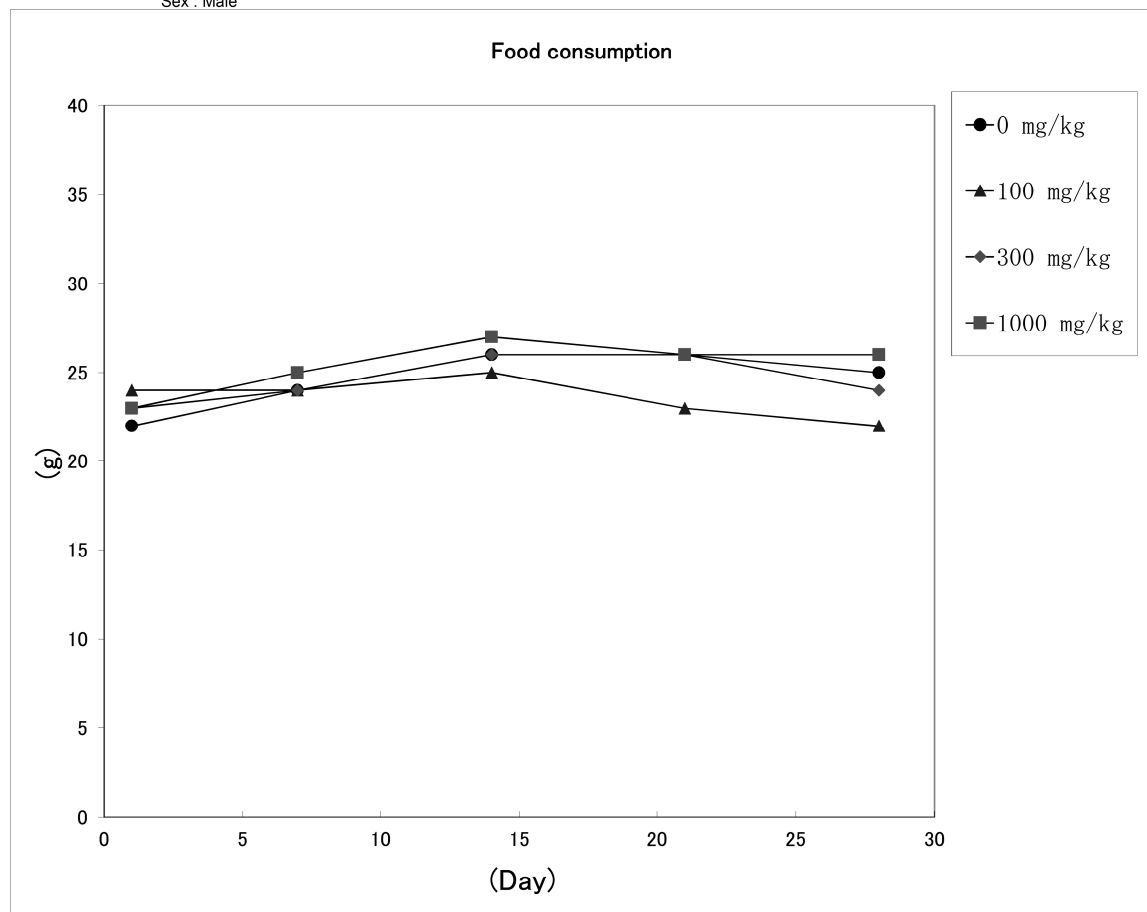


Figure 2 - 2

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Food consumption  
Sex : Male  
Period : Recovery Day 1-15

Study No. : B-9244

Species : Rat

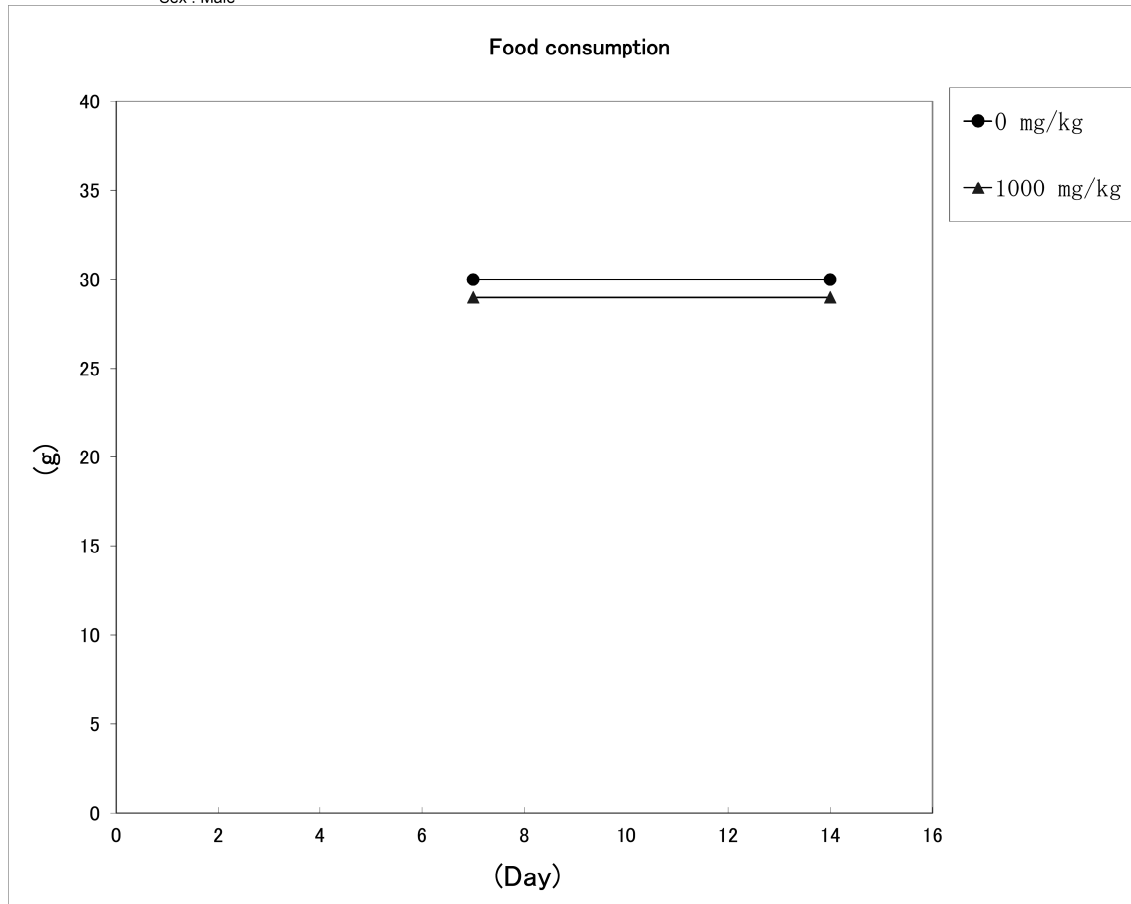


Figure 2 - 3

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Food consumption  
Sex : Female  
Period : Acclimation Day -1-1, Administration Day 1-29

Study No. : B-9244

Species : Rat

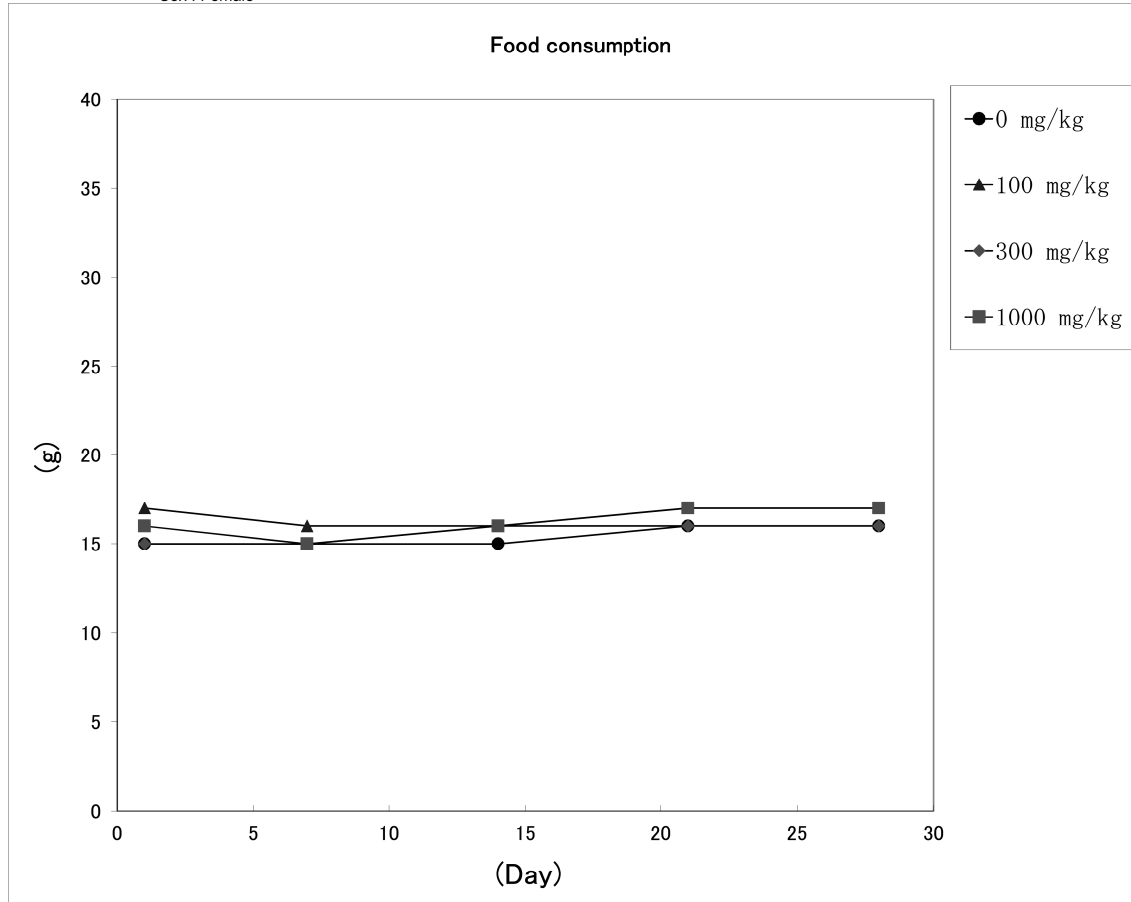


Figure 2 - 4

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Food consumption  
Sex : Female  
Period : Recovery Day 1-15

Study No. : B-9244

Species : Rat

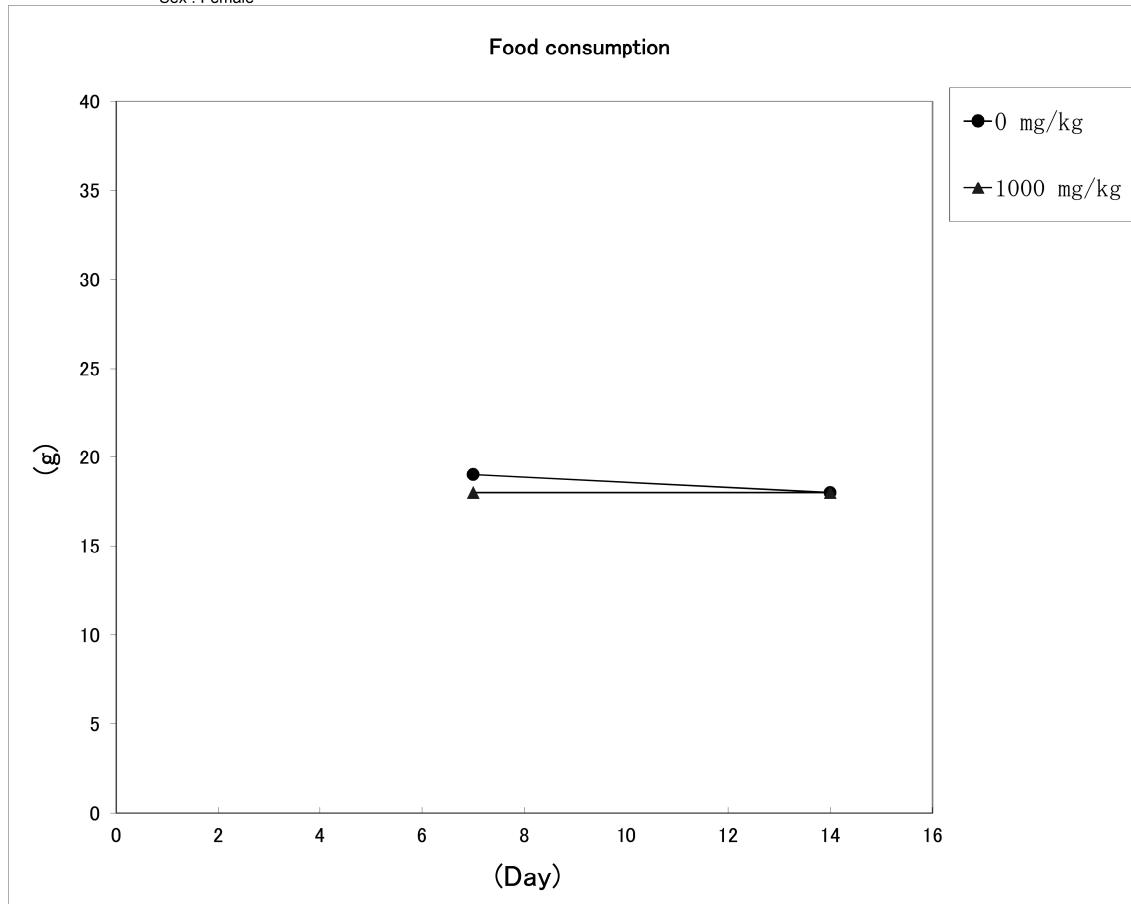


Table 1 - 1

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Clinical sign  
Sex : Male

Study No. : B-9244

Period : Administration Day 1-29

Species : Rat

Test article	Dose	Clinical signs	Day 1			2			3			4			5			6			
			Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
100 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
300 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1000 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

Test article	Dose	Clinical signs	Day 7			8			9			10			11			12			13		
			Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
100 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
300 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1000 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

Test article	Dose	Clinical signs	Day 13		14		15		16		17		18		19	
			Time	2	3	1	2	1	2	3	1	2	1	2	3	1
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10	10	10	10	10
0 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5	5	5	5	5
100 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5	5	5	5	5
300 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10	10	10	10	10
1000 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10

Test article	Dose	Clinical signs	Day 20			21			22			23			24			25		
			Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
100 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
300 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1000 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

Administration)1 : Pre, 2 : IM, 3 : 1-3h

Table 1 - 2

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Clinical sign  
Sex : Male

Study No. : B-9244

Period : Administration Day 1-29

Species : Rat

Test article	Dose	Clinical signs	Day 26		27			28			29	
			Time	1	2	3	1	2	3	1	2	3
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10
0 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5
100 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5
300 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10
1000 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10

Administration)1 : Pre, 2 : IM, 3 : 1-3h, 4 : Necropsy

Table 1 - 3

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Clinical sign  
Sex : Male

Study No. : B-9244

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

Recovery)1 : Morning, 2 : Necropsy



Table 1 - 4

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Clinical sign  
Sex : Female

Study No. : B-9244

Period : Administration Day 1-29

Species : Rat

Test article	Dose	Clinical signs	Day 1			2			3			4			5			6			
			Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
100 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
300 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1000 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

Test article	Dose	Clinical signs	Day 7			8			9			10			11			12			13		
			Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
100 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
300 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1000 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

Test article	Dose	Clinical signs	Day 13		14		15		16		17		18		19	
			Time	2	3	1	2	1	2	3	1	2	1	2	3	1
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10	10	10	10	10
0 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5	5	5	5	5
100 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5	5	5	5	5
300 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10	10	10	10	10
1000 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10

Test article	Dose	Clinical signs	Day 20			21			22			23			24			25		
			Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
0 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
100 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
300 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1000 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

Administration)1 : Pre, 2 : IM, 3 : 1-3h

Table 1 - 5

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Clinical sign  
Sex : Female

Study No. : B-9244

Period : Administration Day 1-29

Species : Rat

Test article	Dose	Clinical signs	Day 26		27			28			29	
			Time	1	2	3	1	2	3	1	2	3
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10
0 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5
100 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		5	5	5	5	5	5	5	5	5	5
300 mg/kg		No abnormality	5	5	5	5	5	5	5	5	5	5
2-Methylhexane	n		10	10	10	10	10	10	10	10	10	10
1000 mg/kg		No abnormality	10	10	10	10	10	10	10	10	10	10

Administration)1 : Pre, 2 : IM, 3 : 1-3h, 4 : Necropsy

Table 1 - 6

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
 with a Recovery Period for 14 Days  
 Clinical sign  
 Sex : Female

Study No. : B-9244

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

Recovery)1 : Morning, 2 : Necropsy

Table 2-1 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : home cage observation (Week 1 of dosing)

Sex	Male				Female				
	0	100	300	1000	0	100	300	1000	
Parameter	No. of animals	10	5	5	10	10	5	5	10
Posture	Normal	10	5	5	10	10	5	5	10
Convulsion	None	10	5	5	10	10	5	5	10
Abnormal behavior	None	10	5	5	10	10	5	5	10

No significant difference in any treated groups from control group.

Table 2-2 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : home cage observation (Week 2 of dosing)

Sex	Male				Female				
	0	100	300	1000	0	100	300	1000	
Parameter	No. of animals	10	5	5	10	10	5	5	10
Posture	Normal	10	5	5	10	10	5	5	10
Convulsion	None	10	5	5	10	10	5	5	10
Abnormal behavior	None	10	5	5	10	10	5	5	10

No significant difference in any treated groups from control group.

Table 2-3 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : home cage observation (Week 3 of dosing)

Sex	Male				Female				
	0	100	300	1000	0	100	300	1000	
Parameter	No. of animals	10	5	5	10	10	5	5	10
Posture	Normal	10	5	5	10	10	5	5	10
Convulsion	None	10	5	5	10	10	5	5	10
Abnormal behavior	None	10	5	5	10	10	5	5	10

No significant difference in any treated groups from control group.

Table 2-4 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : home cage observation (Week 4 of dosing)

Parameter	Sex	Male				Female			
		Dose (mg/kg)	0	100	300	1000	0	100	300
	No. of animals	10	5	5	10	10	5	5	10
Posture	Normal	10	5	5	10	10	5	5	10
Convulsion	None	10	5	5	10	10	5	5	10
Abnormal behavior	None	10	5	5	10	10	5	5	10

No significant difference in any treated groups from control group.

Table 2-5 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : home cage observation (Week 1 of recovery)

Parameter	Sex	Male		Female	
		0	1000	0	1000
	Dose (mg/kg)				
	No. of animals	5	5	5	5
Posture	Normal	5	5	5	5
Convulsion	None	5	5	5	5
Abnormal behavior	None	5	5	5	5

No significant difference between treated group and control group.



Table 2-6 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : home cage observation (Week 2 of recovery)

Parameter	Sex	Male		Female	
	Dose (mg/kg)	0	1000	0	1000
No. of animals		5	5	5	5
Posture					
Normal		5	5	5	5
Convulsion					
None		5	5	5	5
Abnormal behavior					
None		5	5	5	5

No significant difference between treated group and control group.

Table 2-7 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : in-the-hand observation (Week 1 of dosing)

Parameter	Sex	Male				Female			
		Dose (mg/kg)	0	100	300	1000	0	100	300
No. of animals		10	5	5	10	10	5	5	10
Ease of removal from cage									
Easy		10	5	5	10	10	5	5	10
Fur condition									
Normal		10	5	5	10	10	5	5	10
Skin									
Normal		10	5	5	10	10	5	5	10
Secretions-Eye, Nose									
Absent		10	5	5	10	10	5	5	10
Exophthalmos									
Absent		10	5	5	10	10	5	5	10
Palpebral closure									
Normal		10	5	5	10	10	5	5	10
Mucosal membranes									
Normal		10	5	5	10	10	5	5	10
Lacrimation									
Absent		10	5	5	10	10	5	5	10
Piloerection									
Absent		10	5	5	10	10	5	5	10
Pupil size									
Normal		10	5	5	10	10	5	5	10
Salivation									
None		10	5	5	10	10	5	5	10
Abnormal respiration									
Absent		10	5	5	10	10	5	5	10
Vocalization									
None		10	5	5	10	10	5	5	10
Reactivity to handling									
Easy		10	5	5	10	10	5	5	10

No significant difference in any treated groups from control group.

Table 2-8 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : in-the-hand observation (Week 2 of dosing)

Parameter	Sex	Male				Female			
		Dose (mg/kg)	0	100	300	1000	0	100	300
	No. of animals	10	5	5	10	10	5	5	10
Ease of removal from cage									
Easy		10	5	5	10	10	5	5	10
Fur condition									
Normal		10	5	5	10	10	5	5	10
Skin									
Normal		10	5	5	10	10	5	5	10
Secretions-Eye, Nose									
Absent		10	5	5	10	10	5	5	10
Exophthalmos									
Absent		10	5	5	10	10	5	5	10
Palpebral closure									
Normal		10	5	5	10	10	5	5	10
Mucosal membranes									
Normal		10	5	5	10	10	5	5	10
Lacrimation									
Absent		10	5	5	10	10	5	5	10
Piloerection									
Absent		10	5	5	10	10	5	5	10
Pupil size									
Normal		10	5	5	10	10	5	5	10
Salivation									
None		10	5	5	10	10	5	5	10
Abnormal respiration									
Absent		10	5	5	10	10	5	5	10
Vocalization									
None		10	5	5	10	10	5	5	10
Reactivity to handling									
Easy		10	5	5	10	10	5	5	10

No significant difference in any treated groups from control group.

Table 2-9 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : in-the-hand observation (Week 3 of dosing)

Parameter	Sex	Male				Female			
		Dose (mg/kg)	0	100	300	1000	0	100	300
No. of animals		10	5	5	10	10	5	5	10
Ease of removal from cage									
Easy		10	5	5	10	10	5	5	10
Fur condition									
Normal		10	5	5	10	10	5	5	10
Skin									
Normal		10	5	5	10	10	5	5	10
Secretions-Eye, Nose									
Absent		10	5	5	10	10	5	5	10
Exophthalmos									
Absent		10	5	5	10	10	5	5	10
Palpebral closure									
Normal		10	5	5	10	10	5	5	10
Mucosal membranes									
Normal		10	5	5	10	10	5	5	10
Lacrimation									
Absent		10	5	5	10	10	5	5	10
Piloerection									
Absent		10	5	5	10	10	5	5	10
Pupil size									
Normal		10	5	5	10	10	5	5	10
Salivation									
None		10	5	5	10	10	5	5	10
Abnormal respiration									
Absent		10	5	5	10	10	5	5	10
Vocalization									
None		10	5	5	10	10	5	5	10
Reactivity to handling									
Easy		10	5	5	10	10	5	5	10

No significant difference in any treated groups from control group.

Table 2-10 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : in-the-hand observation (Week 4 of dosing)

Parameter	Sex	Male				Female			
		Dose (mg/kg)	0	100	300	1000	0	100	300
	No. of animals	10	5	5	10	10	5	5	10
Ease of removal from cage									
Easy		10	5	5	10	10	5	5	10
Fur condition									
Normal		10	5	5	10	10	5	5	10
Skin									
Normal		10	5	5	10	10	5	5	10
Secretions-Eye, Nose									
Absent		10	5	5	10	10	5	5	10
Exophthalmos									
Absent		10	5	5	10	10	5	5	10
Palpebral closure									
Normal		10	5	5	10	10	5	5	10
Mucosal membranes									
Normal		10	5	5	10	10	5	5	10
Lacrimation									
Absent		10	5	5	10	10	5	5	10
Piloerection									
Absent		10	5	5	10	10	5	5	10
Pupil size									
Normal		10	5	5	10	10	5	5	10
Salivation									
None		10	5	5	10	10	5	5	10
Abnormal respiration									
Absent		10	5	5	10	10	5	5	10
Vocalization									
None		10	5	5	10	10	5	5	10
Reactivity to handling									
Easy		10	5	5	10	10	5	5	10

No significant difference in any treated groups from control group.

Table 2-11 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : in-the-hand observation (Week 1 of recovery)

Parameter	Sex	Male		Female	
	Dose (mg/kg)	0	1000	0	1000
	No. of animals	5	5	5	5
Ease of removal from cage					
Easy		5	5	5	5
Fur condition					
Normal		5	5	5	5
Skin					
Normal		5	5	5	5
Secretions-Eye, Nose					
Absent		5	5	5	5
Exophthalmos					
Absent		5	5	5	5
Palpebral closure					
Normal		5	5	5	5
Mucosal membranes					
Normal		5	5	5	5
Lacrimation					
Absent		5	5	5	5
Piloerection					
Absent		5	5	5	5
Pupil size					
Normal		5	5	5	5
Salivation					
None		5	5	5	5
Abnormal respiration					
Absent		5	5	5	5
Vocalization					
None		5	5	5	5
Reactivity to handling					
Easy		5	5	5	5

No significant difference between treated group and control group.

Table 2-12 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : in-the-hand observation (Week 2 of recovery)

Parameter	Sex	Male		Female	
	Dose (mg/kg)	0	1000	0	1000
No. of animals		5	5	5	5
Ease of removal from cage					
Easy		5	5	5	5
Fur condition					
Normal		5	5	5	5
Skin					
Normal		5	5	5	5
Secretions-Eye, Nose					
Absent		5	5	5	5
Exophthalmos					
Absent		5	5	5	5
Palpebral closure					
Normal		5	5	5	5
Mucosal membranes					
Normal		5	5	5	5
Lacrimation					
Absent		5	5	5	5
Piloerection					
Absent		5	5	5	5
Pupil size					
Normal		5	5	5	5
Salivation					
None		5	5	5	5
Abnormal respiration					
Absent		5	5	5	5
Vocalization					
None		5	5	5	5
Reactivity to handling					
Easy		5	5	5	5

No significant difference between treated group and control group.

Table 2-13 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : open field observation (Week 1 of dosing)

Parameter	Sex	Male				Female			
	Dose (mg/kg)	0	100	300	1000	0	100	300	1000
	No. of animals	10	5	5	10	10	5	5	10
Arousal									
Normal		10	5	5	10	10	5	5	10
Convulsion									
None		10	5	5	10	10	5	5	10
Abnormal behavior									
None		10	5	5	10	10	5	5	10
Stereotypy									
None		10	5	5	10	10	5	5	10
Gait									
Normal		10	5	5	10	10	5	5	10
Posture									
Normal		10	5	5	10	10	5	5	10
Grooming									
None		10	5	5	10	10	5	5	10
Rearing count (Mean±S.D.)		5± 3	5± 3	4± 1	5± 2	5± 2	6± 2	5± 2	7± 2
Defecation count (Mean±S.D.)		0± 0	0± 0	1± 1	0± 1	0± 0	0± 0	0± 0	0± 0
Urination									
None		10	5	5	8	10	5	5	10
Small amount		0	0	0	2	0	0	0	0

No significant difference in any treated groups from control group.



Table 2-14 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : open field observation (Week 2 of dosing)

Parameter	Sex	Male				Female			
	Dose (mg/kg)	0	100	300	1000	0	100	300	1000
	No. of animals	10	5	5	10	10	5	5	10
Arousal									
Normal		10	5	5	10	10	5	5	10
Convulsion									
None		10	5	5	10	10	5	5	10
Abnormal behavior									
None		10	5	5	10	10	5	5	10
Stereotypy									
None		10	5	5	10	10	5	5	10
Gait									
Normal		10	5	5	10	10	5	5	10
Posture									
Normal		10	5	5	10	10	5	5	10
Grooming									
None		10	5	5	10	10	5	5	10
Rearing count (Mean±S.D.)		3± 3	3± 2	3± 2	5± 2	7± 1	5± 1	6± 1	7± 2
Defecation count (Mean±S.D.)		0± 1	0± 0	0± 0	0± 1	0± 0	0± 0	0± 0	0± 0
Urination									
None		10	4	5	9	10	5	5	10
Small amount		0	1	0	1	0	0	0	0

No significant difference in any treated groups from control group.

Table 2-15 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : open field observation (Week 3 of dosing)

Parameter	Sex	Male				Female			
		Dose (mg/kg)	0	100	300	1000	0	100	300
	No. of animals	10	5	5	10	10	5	5	10
Arousal									
Normal		10	5	5	10	10	5	5	10
Convulsion									
None		10	5	5	10	10	5	5	10
Abnormal behavior									
None		10	5	5	10	10	5	5	10
Stereotypy									
None		10	5	5	10	10	5	5	10
Gait									
Normal		10	5	5	10	10	5	5	10
Posture									
Normal		10	5	5	10	10	5	5	10
Grooming									
None		10	5	5	10	10	5	5	10
Rearing count (Mean±S.D.)		3± 2	4± 2	4± 2	3± 2	6± 2	6± 1	6± 1	5± 3
Defecation count (Mean±S.D.)		0± 0	0± 0	0± 0	0± 0	0± 0	0± 0	0± 0	0± 0
Urination									
None		9	5	5	9	10	5	5	10
Small amount		1	0	0	1	0	0	0	0

No significant difference in any treated groups from control group.

Table 2-16 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : open field observation (Week 4 of dosing)

Parameter	Sex	Male				Female			
		Dose (mg/kg)	0	100	300	1000	0	100	300
	No. of animals	10	5	5	10	10	5	5	10
Arousal									
Normal		10	5	5	10	10	5	5	10
Convulsion									
None		10	5	5	10	10	5	5	10
Abnormal behavior									
None		10	5	5	10	10	5	5	10
Stereotypy									
None		10	5	5	10	10	5	5	10
Gait									
Normal		10	5	5	10	10	5	5	10
Posture									
Normal		10	5	5	10	10	5	5	10
Grooming									
None		10	5	5	10	10	5	5	10
Rearing count (Mean±S.D.)		4± 2	3± 2	4± 2	6± 3	6± 2	6± 1	6± 1	5± 2
Defecation count (Mean±S.D.)		0± 0	0± 0	0± 0	0± 0	0± 0	0± 0	0± 0	0± 0
Urination									
None		10	5	5	9	10	5	5	10
Small amount		0	0	0	1	0	0	0	0

No significant difference in any treated groups from control group.

Table 2-17 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : open field observation (Week 1 of recovery)

Parameter	Sex	Male		Female	
	Dose (mg/kg)	0	1000	0	1000
	No. of animals	5	5	5	5
Arousal					
Normal		5	5	5	5
Convulsion					
None		5	5	5	5
Abnormal behavior					
None		5	5	5	5
Stereotypy					
None		5	5	5	5
Gait					
Normal		5	5	5	5
Posture					
Normal		5	5	5	5
Grooming					
None		5	5	5	5
Rearing count (Mean±S.D.)		2± 2	3± 2	6± 1	5± 3
Defecation count (Mean±S.D.)		0± 0	0± 0	0± 0	0± 0
Urination					
None		5	4	5	5
Small amount		0	1	0	0

No significant difference between treated group and control group.

Table 2-18 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Detailed clinical signs : open field observation (Week 2 of recovery)

Parameter	Sex	Male		Female	
	Dose (mg/kg)	0	1000	0	1000
	No. of animals	5	5	5	5
Arousal					
Normal		5	5	5	5
Convulsion					
None		5	5	5	5
Abnormal behavior					
None		5	5	5	5
Stereotypy					
None		5	5	5	5
Gait					
Normal		5	5	5	5
Posture					
Normal		5	5	5	5
Grooming					
None		5	5	5	5
Rearing count (Mean±S.D.)		3± 2	3± 1	5± 2	6± 3
Defecation count (Mean±S.D.)		0± 0	0± 0	0± 0	0± 0
Urination					
None		5	5	5	5

No significant difference between treated group and control group.

Table 2-19 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Manipulative test (Week 4 of dosing)

Parameter	Sex	Male				Female			
		Dose (mg/kg)	0	100	300	1000	0	100	300
No. of animals		10	5	5	10	10	5	5	10
Auditory response									
Normal		10	5	5	10	10	5	5	10
Approach response									
Normal		10	5	5	10	10	5	5	10
Touch response									
Normal		10	5	5	10	10	5	5	10
Tail pinch response									
Normal		10	5	5	10	10	5	5	10
Pupillary reflex									
Pass, both		10	5	5	10	10	5	5	10
Aerial righting reflex									
(Total score: Mean±S.D.)		0± 0	0± 0	0± 0	0± 0	0± 0	0± 0	0± 0	0± 0
Landing foot splay (mm: Mean±S.D.)		65±12	72±23	71±23	72±23	53±14	53±14	50±25	62±22

No significant difference in any treated groups from control group.

Table 2-20 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Manipulative test (Week 2 of recovery)

Parameter	Sex	Male		Female	
	Dose (mg/kg)	0	1000	0	1000
	No. of animals	5	5	5	5
Auditory response					
Normal		5	5	5	5
Approach response					
Normal		5	5	5	5
Touch response					
Normal		5	5	5	5
Tail pinch response					
Normal		5	5	5	5
Pupillary reflex					
Pass, both		5	5	5	5
Aerial righting reflex					
(Total score: Mean±S.D.)		0± 0	0± 0	0± 0	0± 0
Landing foot splay (mm: Mean±S.D.)		71±16	72±19	69±12	52±19

No significant difference between treated group and control group.

Table 2-21 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Grip strength (Week 4 of dosing)

Sex	Dose mg/kg		Fore limb g	Hind limb g
Male	0	No.	10	10
		Mean	1202	554
		S.D.	199	91
	100	No.	5	5
		Mean	1124	480
		S.D.	163	99
	300	No.	5	5
		Mean	1112	560
		S.D.	155	115
	1000	No.	10	10
		Mean	1157	573
		S.D.	159	93
Female	0	No.	10	10
		Mean	1067	498
		S.D.	91	92
	100	No.	5	5
		Mean	1118	498
		S.D.	95	73
	300	No.	5	5
		Mean	1156	495
		S.D.	162	114
	1000	No.	10	10
		Mean	1141	490
		S.D.	71	75

No significant difference in any treated groups from control group.



Table 2-22 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Grip strength (Week 2 of recovery)

Sex	Dose mg/kg		Fore limb g	Hind limb g
Male	0	No.	5	5
		Mean	1117	653
		S.D.	187	134
	1000	No.	5	5
		Mean	1278	614
		S.D.	139	80
Female	0	No.	5	5
		Mean	941	572
		S.D.	142	107
	1000	No.	5	5
		Mean	1141	575
		S.D.	165	111

No significant difference between treated group and control group.

Table 2-23 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Motor activity (Week 4 of dosing)

Sex	Dose mg/kg		Interval (minutes)						Total (0-60)
			0-10	10-20	20-30	30-40	40-50	50-60	
Male	0	No.	10	10	10	10	10	10	10
		Mean	395	333	315	185	131	116	1476
		S.D.	37	57	84	128	119	113	376
	100	No.	5	5	5	5	5	5	5
		Mean	433	360	219	126	94	76	1308
		S.D.	29	41	106	158	122	90	414
	300	No.	5	5	5	5	5	5	5
		Mean	445	381	249	115	17	11	1218
		S.D.	25	21	147	139	20	4	289
	1000	No.	10	10	10	10	10	10	10
		Mean	421	257	142D2**	60	48	28	957D2*
		S.D.	53	99	121	92	85	58	385
Female	0	No.	10	10	10	10	10	10	10
		Mean	244	179	169	87	84	91	855
		S.D.	96	100	105	82	89	105	335
	100	No.	5	5	5	5	5	5	5
		Mean	190	107	120	70	88	89	664
		S.D.	103	105	123	148	78	103	239
	300	No.	5	5	5	5	5	5	5
		Mean	247	214	130	75	78	86	831
		S.D.	106	76	123	99	69	104	361
	1000	No.	10	10	10	10	10	10	10
		Mean	244	189	196	126	235D2**	173	1163
		S.D.	143	121	146	129	118	140	369

Unit : Count

Significantly different from control

: \* P&lt;0.05, \*\* P&lt;0.01

D2:Dunnett Test Two-Side

Table 2-24 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
Motor activity (Week 2 of recovery)

Sex	Dose mg/kg		Interval (minutes)						Total (0-60)
			0-10	10-20	20-30	30-40	40-50	50-60	
Male	0	No.	5	5	5	5	5	5	5
		Mean	328	281	195	151	184	64	1202
		S.D.	54	46	72	78	229	86	444
	1000	No.	5	5	5	5	5	5	5
		Mean	309	221	130	64	33	13	771
		S.D.	77	69	84	87	59	13	164
Female	0	No.	5	5	5	5	5	5	5
		Mean	340	225	259	107	60	18	1009
		S.D.	53	79	175	97	99	35	429
	1000	No.	5	5	5	5	5	5	5
		Mean	311	149	158	205	170	19	1012
		S.D.	43	93	169	125	105	18	332

Unit : Count

No significant difference between treated group and control group.

Table 3 - 1

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Body weight

Period : Administration Day 1-29

Sex : Male

Unit : g

Species : Rat

Test article Dose	/Day	Body weight gain					
		1	7	14	21	28	
2-Methylhexane 0 mg/kg	n	10	10	10	10	10	10
	Mean	214	267	322	365	399	185
	S.D.	8	11	19	25	30	27
2-Methylhexane 100 mg/kg	n	5	5	5	5	5	5
	Mean	214	265	317	347	376	162
	S.D.	9	8	11	11	16	9
2-Methylhexane 300 mg/kg	n	5	5	5	5	5	5
	Mean	215	266	319	358	388	173
	S.D.	9	14	15	16	16	11
2-Methylhexane 1000 mg/kg	n	10	10	10	10	10	10
	Mean	214	266	319	352	383	170
	S.D.	8	10	10	15	18	18

Not significantly different from 2-Methylhexane 0 mg/kg

Table 3 - 2

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Body weight

Period : Recovery Day 1-15

Sex : Male

Unit : g

Species : Rat

Test article Dose	/Day	/Day			Body weight gain	
		1	7	14		
2-Methylhexane 0 mg/kg	n	5	5	5	5	5
	Mean	416	441	462	47	
	S.D.	31	33	32	7	
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5
	Mean	386	407	430	44	
	S.D.	14	14	14	6	

Not significantly different from 2-Methylhexane 0 mg/kg

Table 3 - 3

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Body weight

Period : Administration Day 1-29

Sex : Female

Unit : g

Species : Rat

Test article Dose	/Day	Body weight gain					
		1	7	14	21	28	
2-Methylhexane 0 mg/kg	n	10	10	10	10	10	10
	Mean	160	179	198	215	229	70
	S.D.	9	12	13	13	12	7
2-Methylhexane 100 mg/kg	n	5	5	5	5	5	5
	Mean	166	188	210	228	247	81
	S.D.	7	12	12	9	12	7
2-Methylhexane 300 mg/kg	n	5	5	5	5	5	5
	Mean	161	181	201	220	235	74
	S.D.	11	9	17	17	20	17
2-Methylhexane 1000 mg/kg	n	10	10	10	10	10	10
	Mean	162	180	202	219	230	68
	S.D.	9	11	14	18	15	9

Not significantly different from 2-Methylhexane 0 mg/kg

Table 3 - 4

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Body weight		Period : Recovery Day 1-15			Unit : g	Species : Rat
Test article	Sex : Female	/Day			Body weight	
Dose		1	7	14	gain	
2-Methylhexane 0 mg/kg	n	5	5	5	5	
	Mean	228	242	247	18	
	S.D.	11	11	12	7	
2-Methylhexane 1000 mg/kg	n	5	5	5	5	
	Mean	223	230	237	14	
	S.D.	23	21	22	6	

Not significantly different from 2-Methylhexane 0 mg/kg

Table 4 - 1

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats

Study No. : B-9244

with a Recovery Period for 14 Days

Food consumption

Period : Acclimation Day -1-1, Administration Day 1-29

Sex : Male

Unit : g

Species : Rat

Test article Dose		/Day				
		1	7	14	21	28
2-Methylhexane 0 mg/kg	n	5	5	5	5	5
	Mean	22	24	26	26	25
	S.D.	2	1	2	2	2
2-Methylhexane 100 mg/kg	n	3	3	3	3	3
	Mean	24	24	25	23	22
	S.D.	1	0	1	0	2
2-Methylhexane 300 mg/kg	n	3	3	3	3	3
	Mean	23	24	26	26	24
	S.D.	1	1	1	1	1
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5
	Mean	23	25	27	26	26
	S.D.	1	1	1	1	1

Not significantly different from 2-Methylhexane 0 mg/kg



Table 4 - 2

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats

Study No. : B-9244

with a Recovery Period for 14 Days

Food consumption

Period : Recovery Day 1-15

Sex : Male

Unit : g

Species : Rat

Test article	Dose	/Day	
		7	14
2-Methylhexane 0 mg/kg	n	3	3
	Mean	30	30
	S.D.	2	1
2-Methylhexane 1000 mg/kg	n	3	3
	Mean	29	29
	S.D.	2	1

Not significantly different from 2-Methylhexane 0 mg/kg

Table 4 - 3

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats

Study No. : B-9244

with a Recovery Period for 14 Days

Food consumption

Period : Acclimation Day -1-1, Administration Day 1-29

Sex : Female

Unit : g

Species : Rat

Test article Dose		/Day				
		1	7	14	21	28
2-Methylhexane 0 mg/kg	n	5	5	5	5	5
	Mean	15	15	15	16	16
	S.D.	1	1	1	1	1
2-Methylhexane 100 mg/kg	n	3	3	3	3	3
	Mean	17	16	16	17	17
	S.D.	2	2	1	1	2
2-Methylhexane 300 mg/kg	n	3	3	3	3	3
	Mean	15	15	16	16	16
	S.D.	2	1	1	1	2
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5
	Mean	16	15	16	17	17
	S.D.	2	2	2	1	1

Not significantly different from 2-Methylhexane 0 mg/kg

Table 4 - 4

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Food consumption

Period : Recovery Day 1-15

Sex : Female

Unit : g

Species : Rat

Test article	Dose	/Day	
		7	14
2-Methylhexane 0 mg/kg	n	3	3
	Mean	19	18
	S.D.	1	1
2-Methylhexane 1000 mg/kg	n	3	3
	Mean	18	18
	S.D.	2	1

Not significantly different from 2-Methylhexane 0 mg/kg

Table 5 - 1

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
 with a Recovery Period for 14 Days  
 Urinalysis  
 Sex : Male

Study No. : B-9244

Stage : Week 4 of dosing

Species : Rat

		pH										
Test article	Dose	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	>=9.0		
2-Methylhexane	0 mg/kg	n	0	0	0	1	0	1	1	0	2	
2-Methylhexane	100 mg/kg	n	0	0	0	1	0	1	1	2	0	
2-Methylhexane	300 mg/kg	n	0	0	1	1	0	0	0	1	2	
2-Methylhexane	1000 mg/kg	n	0	1	0	2	2	0	0	0	0	
		Protein					Ketones					
Test article	Dose	-	+/-	1+	2+	3+	-	+/-	1+	2+	3+	
2-Methylhexane	0 mg/kg	n	0	1	2	2	0	0	0	5	0	0
2-Methylhexane	100 mg/kg	n	0	0	1	3	1	0	0	2	3	0
2-Methylhexane	300 mg/kg	n	0	0	3	1	1	0	1	3	1	0
2-Methylhexane	1000 mg/kg	n	0	1	0	4	0	0	1	4	0	0

Table 5 - 2

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Urinalysis  
Sex : Male

Stage : Week 4 of dosing

Species : Rat

Test article Dose	n	Glucose					Occult blood				
		-	1+	2+	3+	4+	-	+/-	1+	2+	3+
2-Methylhexane 0 mg/kg	5	5	0	0	0	0	4	1	0	0	0
2-Methylhexane 100 mg/kg	5	5	0	0	0	0	4	1	0	0	0
2-Methylhexane 300 mg/kg	4	4	1	0	0	0	5	0	0	0	0
2-Methylhexane 1000 mg/kg	5	5	0	0	0	0	5	0	0	0	0

Test article Dose	n	Urobilinogen				Bilirubin			
		+/-	1+	2+	3+	-	1+	2+	3+
2-Methylhexane 0 mg/kg	5	5	0	0	0	5	0	0	0
2-Methylhexane 100 mg/kg	5	5	0	0	0	5	0	0	0
2-Methylhexane 300 mg/kg	5	5	0	0	0	5	0	0	0
2-Methylhexane 1000 mg/kg	5	5	0	0	0	5	0	0	0

Table 5 - 3

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
 with a Recovery Period for 14 Days  
 Urinalysis  
 Sex : Male

Stage : Week 4 of dosing

Study No. : B-9244

Species : Rat

Test article Dose	n	Specific gravity									
		1.000	1.005	1.010	1.015	1.020	1.025	>=1.030	<=1.005		
2-Methylhexane 0 mg/kg	n	0	0	0	2	2	1	0	0		
2-Methylhexane 100 mg/kg	n	0	0	0	0	1	2	2	0		
2-Methylhexane 300 mg/kg	n	0	0	1	0	1	0	3	0		
2-Methylhexane 1000 mg/kg	n	0	0	0	1	0	0	4	0		

Test article Dose	n	Color						RBC				
		LY	Y	DY	Other	RB	-	+/-	1+	2+	3+	
2-Methylhexane 0 mg/kg	n	0	5	0	0	0	0	5	0	0	0	0
2-Methylhexane 100 mg/kg	n	0	5	0	0	0	0	5	0	0	0	0
2-Methylhexane 300 mg/kg	n	0	5	0	0	0	0	5	0	0	0	0
2-Methylhexane 1000 mg/kg	n	0	5	0	0	0	0	5	0	0	0	0

Table 5 - 4

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

		WBC					Squamous epithelial cells				
Test article		WBC					Squamous epithelial cells				
Dose		-	+/-	1+	2+	3+	-	+/-	1+	2+	3+
2-Methylhexane	n	5	0	0	0	0	0	5	0	0	0
0 mg/kg											
2-Methylhexane	n	5	0	0	0	0	0	5	0	0	0
100 mg/kg											
2-Methylhexane	n	5	0	0	0	0	0	5	0	0	0
300 mg/kg											
2-Methylhexane	n	5	0	0	0	0	0	5	0	0	0
1000 mg/kg											
		Small round epithelial cells					Cast				
Test article		Small round epithelial cells					Cast				
Dose		-	+/-	1+	2+	3+	-	+/-	1+	2+	3+
2-Methylhexane	n	5	0	0	0	0	5	0	0	0	0
0 mg/kg											
2-Methylhexane	n	4	1	0	0	0	5	0	0	0	0
100 mg/kg											
2-Methylhexane	n	2	2	1	0	0	5	0	0	0	0
300 mg/kg											
2-Methylhexane	n	0	3	2	0	0	5	0	0	0	0
1000 mg/kg											

Table 5 - 5

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Test article Dose	n	Urinalysis										Species : Rat
		Crystal phosphate salts					Crystal calcium oxalate					
		-	+/-	1+	2+	3+	-	+/-	1+	2+	3+	
2-Methylhexane 0 mg/kg	n	3	2	0	0	0	5	0	0	0	0	
2-Methylhexane 100 mg/kg	n	5	0	0	0	0	4	1	0	0	0	
2-Methylhexane 300 mg/kg	n	4	1	0	0	0	5	0	0	0	0	
2-Methylhexane 1000 mg/kg	n	4	1	0	0	0	5	0	0	0	0	



Table 5 - 6

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Urinalysis

Stage : Week 4 of dosing

Sex : Male

Species : Rat

Test article Dose	Urine volume	
	mL	
2-Methylhexane 0 mg/kg	n	5
	Mean	6.7
	S.D.	1.6
2-Methylhexane 100 mg/kg	n	5
	Mean	7.1
	S.D.	2.2
2-Methylhexane 300 mg/kg	n	5
	Mean	8.8
	S.D.	7.5
2-Methylhexane 1000 mg/kg	n	5
	Mean	8.5
	S.D.	3.7

Not significantly different from 2-Methylhexane 0 mg/kg

Table 5 - 7

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Urinalysis  
Sex : Male

Stage : Week 2 of recovery

Species : Rat

		pH									
Test article	Dose	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	>=9.0	
2-Methylhexane	0 mg/kg	n	0	0	0	0	0	0	0	5	0
2-Methylhexane	1000 mg/kg	n	0	0	0	0	0	1	1	3	0
		Protein					Ketones				
Test article	Dose	-	+/-	1+	2+	3+	-	+/-	1+	2+	3+
2-Methylhexane	0 mg/kg	n	1	1	2	1	0	0	1	4	0
2-Methylhexane	1000 mg/kg	n	0	1	4	0	0	0	4	1	0
		Glucose					Occult blood				
Test article	Dose	-	1+	2+	3+	4+	-	+/-	1+	2+	3+
2-Methylhexane	0 mg/kg	n	5	0	0	0	0	5	0	0	0
2-Methylhexane	1000 mg/kg	n	5	0	0	0	0	5	0	0	0
		Urobilinogen					Bilirubin				
Test article	Dose	+/-	1+	2+	3+	-	1+	2+	3+		
2-Methylhexane	0 mg/kg	n	5	0	0	0	5	0	0	0	0
2-Methylhexane	1000 mg/kg	n	5	0	0	0	5	0	0	0	0

Table 5 - 8

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
 with a Recovery Period for 14 Days  
 Urinalysis  
 Sex : Male

Stage : Week 2 of recovery

Study No. : B-9244

Species : Rat

Test article Dose	n	Specific gravity									
		1.000	1.005	1.010	1.015	1.020	1.025	>=1.030	<=1.005		
2-Methylhexane 0 mg/kg	n	0	0	2	3	0	0	0	0	0	0
2-Methylhexane 1000 mg/kg	n	0	0	0	2	1	0	2	0	0	0

Test article Dose	n	Color					RBC					
		LY	Y	DY	Other	RB	-	+/-	1+	2+	3+	
2-Methylhexane 0 mg/kg	n	0	5	0	0	0	0	5	0	0	0	0
2-Methylhexane 1000 mg/kg	n	0	5	0	0	0	0	5	0	0	0	0

Test article Dose	n	WBC					Squamous epithelial cells					
		-	+/-	1+	2+	3+	-	+/-	1+	2+	3+	
2-Methylhexane 0 mg/kg	n	5	0	0	0	0	0	0	5	0	0	0
2-Methylhexane 1000 mg/kg	n	5	0	0	0	0	0	0	5	0	0	0

Test article Dose	n	Small round epithelial cells					Cast					
		-	+/-	1+	2+	3+	-	+/-	1+	2+	3+	
2-Methylhexane 0 mg/kg	n	5	0	0	0	0	0	0	5	0	0	0
2-Methylhexane 1000 mg/kg	n	5	0	0	0	0	0	0	5	0	0	0

Table 5 - 9

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Test article Dose	n	Crystal phosphate salts					Crystal calcium oxalate				
		-	+/-	1+	2+	3+	-	+/-	1+	2+	3+
2-Methylhexane 0 mg/kg	n	2	3	0	0	0	5	0	0	0	0
2-Methylhexane 1000 mg/kg	n	4	1	0	0	0	5	0	0	0	0

Table 5 - 10

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Urinalysis

Stage : Week 2 of recovery

Sex : Male

Species : Rat

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Urine volume		
Test article	mL	
Dose	n	
2-Methylhexane	5	
0 mg/kg	Mean	11.4
	S.D.	3.5
<hr/>		
2-Methylhexane	5	
1000 mg/kg	Mean	11.2
	S.D.	4.5

---

Not significantly different from 2-Methylhexane 0 mg/kg

Table 5 - 11

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
 with a Recovery Period for 14 Days  
 Urinalysis  
 Sex : Female

Stage : Week 4 of dosing

Study No. : B-9244

Species : Rat

		pH									
Test article	Dose	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	>=9.0	
2-Methylhexane	0 mg/kg	n	0	0	0	0	2	0	1	1	1
2-Methylhexane	100 mg/kg	n	0	0	2	1	0	0	0	1	1
2-Methylhexane	300 mg/kg	n	0	0	0	1	1	0	1	1	1
2-Methylhexane	1000 mg/kg	n	0	0	1	0	1	1	1	1	0

		Protein					Ketones					
Test article	Dose	-	+/-	1+	2+	3+	-	+/-	1+	2+	3+	
2-Methylhexane	0 mg/kg	n	0	3	1	1	0	2	2	1	0	0
2-Methylhexane	100 mg/kg	n	1	1	1	2	0	1	2	2	0	0
2-Methylhexane	300 mg/kg	n	2	3	0	0	0	3	2	0	0	0
2-Methylhexane	1000 mg/kg	n	1	3	1	0	0	2	2	1	0	0

Table 5 - 12

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Urinalysis  
Sex : Female

Stage : Week 4 of dosing

Species : Rat

Test article Dose	n	Glucose					Occult blood				
		-	1+	2+	3+	4+	-	+/-	1+	2+	3+
2-Methylhexane 0 mg/kg	n	5	0	0	0	0	5	0	0	0	0
2-Methylhexane 100 mg/kg	n	3	2	0	0	0	5	0	0	0	0
2-Methylhexane 300 mg/kg	n	5	0	0	0	0	5	0	0	0	0
2-Methylhexane 1000 mg/kg	n	5	0	0	0	0	5	0	0	0	0

Test article Dose	n	Urobilinogen				Bilirubin			
		+/-	1+	2+	3+	-	1+	2+	3+
2-Methylhexane 0 mg/kg	n	5	0	0	0	5	0	0	0
2-Methylhexane 100 mg/kg	n	5	0	0	0	5	0	0	0
2-Methylhexane 300 mg/kg	n	5	0	0	0	5	0	0	0
2-Methylhexane 1000 mg/kg	n	5	0	0	0	5	0	0	0

Table 5 - 13

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
 with a Recovery Period for 14 Days  
 Urinalysis  
 Sex : Female

Stage : Week 4 of dosing

Study No. : B-9244

Species : Rat

Test article Dose	n	Specific gravity									
		1.000	1.005	1.010	1.015	1.020	1.025	>=1.030	<=1.005		
2-Methylhexane 0 mg/kg	n	0	0	0	2	0	2	1	0		
2-Methylhexane 100 mg/kg	n	0	0	0	2	0	1	2	0		
2-Methylhexane 300 mg/kg	n	0	0	2	1	2	0	0	0		
2-Methylhexane 1000 mg/kg	n	0	0	0	1	1	1	1	1		

Test article Dose	n	Color						RBC				
		LY	Y	DY	Other	RB	-	+/-	1+	2+	3+	
2-Methylhexane 0 mg/kg	n	0	5	0	0	0	0	5	0	0	0	0
2-Methylhexane 100 mg/kg	n	0	5	0	0	0	0	5	0	0	0	0
2-Methylhexane 300 mg/kg	n	0	5	0	0	0	0	5	0	0	0	0
2-Methylhexane 1000 mg/kg	n	0	5	0	0	0	0	5	0	0	0	0



Table 5 - 14

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Urinalysis  
Sex : Female

Stage : Week 4 of dosing

Species : Rat

Test article Dose	n	WBC					Squamous epithelial cells				
		-	+/-	1+	2+	3+	-	+/-	1+	2+	3+
2-Methylhexane 0 mg/kg	5	5	0	0	0	0	0	5	0	0	0
2-Methylhexane 100 mg/kg	5	5	0	0	0	0	0	5	0	0	0
2-Methylhexane 300 mg/kg	5	5	0	0	0	0	0	5	0	0	0
2-Methylhexane 1000 mg/kg	5	5	0	0	0	0	0	5	0	0	0

Test article Dose	n	Small round epithelial cells					Cast				
		-	+/-	1+	2+	3+	-	+/-	1+	2+	3+
2-Methylhexane 0 mg/kg	5	5	0	0	0	0	5	0	0	0	0
2-Methylhexane 100 mg/kg	5	5	0	0	0	0	5	0	0	0	0
2-Methylhexane 300 mg/kg	5	5	0	0	0	0	5	0	0	0	0
2-Methylhexane 1000 mg/kg	5	5	0	0	0	0	5	0	0	0	0

Table 5 - 15

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Test article Dose	n	Urinalysis										Species : Rat
		Crystal phosphate salts					Crystal calcium oxalate					
		-	+/-	1+	2+	3+	-	+/-	1+	2+	3+	
2-Methylhexane 0 mg/kg	n	5	0	0	0	0	5	0	0	0	0	
2-Methylhexane 100 mg/kg	n	4	1	0	0	0	5	0	0	0	0	
2-Methylhexane 300 mg/kg	n	5	0	0	0	0	5	0	0	0	0	
2-Methylhexane 1000 mg/kg	n	5	0	0	0	0	5	0	0	0	0	

Table 5 - 16

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Urinalysis

Stage : Week 4 of dosing

Sex : Female

Species : Rat

Test article Dose	Urine volume	
	mL	
2-Methylhexane 0 mg/kg	n	5
	Mean	4.7
	S.D.	3.2
2-Methylhexane 100 mg/kg	n	5
	Mean	4.5
	S.D.	2.2
2-Methylhexane 300 mg/kg	n	5
	Mean	4.4
	S.D.	0.7
2-Methylhexane 1000 mg/kg	n	5
	Mean	5.5
	S.D.	3.3

Not significantly different from 2-Methylhexane 0 mg/kg

Table 5 - 17

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Urinalysis  
Sex : Female

Stage : Week 2 of recovery

Species : Rat

		pH									
Test article	Dose	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	>=9.0	
2-Methylhexane	0 mg/kg	n	0	0	0	0	0	0	0	5	0
2-Methylhexane	1000 mg/kg	n	0	0	0	0	0	1	4	0	
		Protein					Ketones				
Test article	Dose	-	+/-	1+	2+	3+	-	+/-	1+	2+	3+
2-Methylhexane	0 mg/kg	n	5	0	0	0	4	1	0	0	0
2-Methylhexane	1000 mg/kg	n	4	0	1	0	4	1	0	0	0
		Glucose					Occult blood				
Test article	Dose	-	1+	2+	3+	4+	-	+/-	1+	2+	3+
2-Methylhexane	0 mg/kg	n	5	0	0	0	5	0	0	0	0
2-Methylhexane	1000 mg/kg	n	5	0	0	0	5	0	0	0	0
		Urobilinogen					Bilirubin				
Test article	Dose	+/-	1+	2+	3+	-	1+	2+	3+		
2-Methylhexane	0 mg/kg	n	5	0	0	0	5	0	0	0	
2-Methylhexane	1000 mg/kg	n	5	0	0	0	5	0	0	0	

Table 5 - 18

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
 with a Recovery Period for 14 Days  
 Urinalysis  
 Sex : Female

Stage : Week 2 of recovery

Study No. : B-9244

Species : Rat

Test article Dose	n	Specific gravity									
		1.000	1.005	1.010	1.015	1.020	1.025	>=1.030	<=1.005		
2-Methylhexane 0 mg/kg	n	0	0	3	2	0	0	0	0	0	0
2-Methylhexane 1000 mg/kg	n	0	0	3	1	0	1	0	0	0	0

Test article Dose	n	Color					RBC					
		LY	Y	DY	Other	RB	-	+/-	1+	2+	3+	
2-Methylhexane 0 mg/kg	n	0	5	0	0	0	0	5	0	0	0	0
2-Methylhexane 1000 mg/kg	n	0	5	0	0	0	0	5	0	0	0	0

Test article Dose	n	WBC					Squamous epithelial cells					
		-	+/-	1+	2+	3+	-	+/-	1+	2+	3+	
2-Methylhexane 0 mg/kg	n	5	0	0	0	0	0	0	5	0	0	0
2-Methylhexane 1000 mg/kg	n	5	0	0	0	0	0	0	5	0	0	0

Test article Dose	n	Small round epithelial cells					Cast				
		-	+/-	1+	2+	3+	-	+/-	1+	2+	3+
2-Methylhexane 0 mg/kg	n	5	0	0	0	0	5	0	0	0	0
2-Methylhexane 1000 mg/kg	n	5	0	0	0	0	5	0	0	0	0

Table 5 - 19

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Test article Dose	n	Urinalysis									
		Crystal phosphate salts					Crystal calcium oxalate				
		-	+/-	1+	2+	3+	-	+/-	1+	2+	3+
2-Methylhexane 0 mg/kg		3	2	0	0	0	5	0	0	0	0
2-Methylhexane 1000 mg/kg		4	1	0	0	0	5	0	0	0	0

Table 5 - 20

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Urinalysis

Stage : Week 2 of recovery

Sex : Female

Species : Rat

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Urine volume		
Test article	mL	
Dose	n	
2-Methylhexane	5	
0 mg/kg	Mean	8.5
	S.D.	4.4
<hr/>		
2-Methylhexane	5	
1000 mg/kg	Mean	7.6
	S.D.	1.8

---

Not significantly different from 2-Methylhexane 0 mg/kg

Species : Rat

Protein) -:Negative, +/-:15, 1+:30, 2+:100, 3+:≥300 mg/dL  
Ketones) -:Negative, +/-:5, 1+:15, 2+:40, 3+:80 mg/dL  
Glucose) -:Negative, 1+:100, 2+:250, 3+:500, 4+:≥1000 mg/dL  
Occult blood) -:Negative, +/-:0.015, 1+:0.062, 2+:0.135, 3+:0.405 mg/dL  
Urobilinogen) +/-:0.1-1.0, 1+:2.0, 2+:4.0, 3+:>8.0 Ehrlich U/dL  
Bilirubin) -:Negative, 1+:0.8, 2+:1.6, 3+:3.2 mg/dL  
Color) LY:Light yellow, Y:Yellow, DY:Dark yellow, Other:Other color, RB:Reddish brown  
RBC) -:Negative, +/-:Slight, 1+:Mild, 2+:Moderate, 3+:Severe  
WBC) -:Negative, +/-:Slight, 1+:Mild, 2+:Moderate, 3+:Severe  
Squamous epithelial cells) -:Negative, +/-:Slight, 1+:Mild, 2+:Moderate, 3+:Severe  
Small round epithelial cells) -:Negative, +/-:Slight, 1+:Mild, 2+:Moderate, 3+:Severe  
Cast) -:Negative, +/-:Slight, 1+:Mild, 2+:Moderate, 3+:Severe  
Crystal phosphate salts) -:Negative, +/-:Slight, 1+:Mild, 2+:Moderate, 3+:Severe  
Crystal calcium oxalate) -:Negative, +/-:Slight, 1+:Mild, 2+:Moderate, 3+:Severe



Table 6 - 1

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Hematology  
Sex : Male

Stage : End of dosing

Study No. : B-9244

Test article Dose		Species : Rat								Species : Rat	
		WBC	RBC	HGB	HCT	MCV	MCH	MCHC	RDW	PLT	Retic
		10 <sup>2</sup> /μL	10 <sup>4</sup> /μL	g/dL	%	fL	pg	g/dL	%	10 <sup>4</sup> /μL	10 <sup>9</sup> /L
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5	5	5	5	5
	Mean	98.8	807	15.6	46.1	57.1	19.4	33.9	11.7	121.4	206.6
	S.D.	28.5	35	0.7	2.4	1.2	0.6	0.6	0.3	6.4	28.8
2-Methylhexane 100 mg/kg	n	5	5	5	5	5	5	5	5	5	5
	Mean	97.3	803	16.0	46.6	58.1	19.9	34.3	11.8	110.1	189.4
	S.D.	18.8	36	0.5	1.6	1.3	0.5	0.4	0.3	10.8	11.4
2-Methylhexane 300 mg/kg	n	5	5	5	5	5	5	5	5	5	5
	Mean	96.1	791	15.4	45.5	57.5	19.4	33.8	11.7	113.8	188.7
	S.D.	19.8	20	0.4	1.4	1.3	0.4	0.3	0.2	15.0	19.9
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5	5	5	5	5
	Mean	115.4	785	15.7	46.3	59.1	20.1	34.0	11.7	120.7	194.0
	S.D.	16.0	42	0.4	1.4	2.1	0.6	0.3	0.4	8.5	26.3
		NEUT	LYMP	MONO	EOS	BASO	LUC				
		10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL				
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5				
	Mean	18.1	76.9	2.0	0.7	0.2	0.9				
	S.D.	6.4	22.2	0.8	0.3	0.1	0.6				
2-Methylhexane 100 mg/kg	n	5	5	5	5	5	5				
	Mean	17.9	75.8	1.9	0.9	0.1	0.6				
	S.D.	2.9	16.8	0.5	0.3	0.0	0.2				
2-Methylhexane 300 mg/kg	n	5	5	5	5	5	5				
	Mean	17.6	74.7	1.7	0.9	0.1	0.9				
	S.D.	4.6	14.0	0.9	0.3	0.1	0.4				
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5				
	Mean	24.0	87.3	2.1	0.8	0.2	1.1				
	S.D.	8.2	10.8	0.7	0.3	0.1	0.3				

Not significantly different from 2-Methylhexane 0 mg/kg

Table 6 - 2

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

		Stage : End of recovery								Species : Rat	
Sex : Male		WBC	RBC	HGB	HCT	MCV	MCH	MCHC	RDW	PLT	Retic
Test article		10 <sup>3</sup> /μL	10 <sup>4</sup> /μL	g/dL	%	fL	pg	g/dL	%	10 <sup>4</sup> /μL	10 <sup>9</sup> /L
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5	5	5	5	5
	Mean	88.2	806	15.4	45.2	56.1	19.2	34.2	11.7	103.6	208.4
	S.D.	7.3	24	0.3	0.7	1.3	0.5	0.5	0.2	7.5	25.0
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5	5	5	5	5
	Mean	93.6	812	15.3	44.5	54.9	18.8	34.3	11.7	112.7	189.7
	S.D.	27.9	24	0.5	1.2	1.9	0.8	0.4	0.4	15.6	26.9
		NEUT	LYMP	MONO	EOS	BASO	LUC				
Test article		10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL				
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5				
	Mean	17.4	67.2	1.6	1.2	0.1	0.7				
	S.D.	5.8	10.6	0.7	0.3	0.0	0.2				
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5				
	Mean	14.5	75.0	2.2	0.8	0.1	0.9				
	S.D.	6.3	21.0	1.3	0.2	0.1	0.6				

Significantly different from 2-Methylhexane 0 mg/kg : \* P&lt;0.05

T2 : Student t-test (two-side)

Table 6 - 3

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Hematology  
Sex : Female

Study No. : B-9244

Test article Dose		Stage : End of dosing								Species : Rat	
		WBC	RBC	HGB	HCT	MCV	MCH	MCHC	RDW	PLT	Retic
		10 <sup>2</sup> /μL	10 <sup>4</sup> /μL	g/dL	%	fL	pg	g/dL	%	10 <sup>4</sup> /μL	10 <sup>9</sup> /L
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5	5	5	5	5
	Mean	62.9	752	14.8	42.5	56.5	19.7	34.9	11.0	119.2	159.3
	S.D.	9.7	27	0.5	1.5	1.1	0.4	0.7	0.5	10.3	16.7
2-Methylhexane 100 mg/kg	n	5	5	5	5	5	5	5	5	5	5
	Mean	70.2	761	14.9	42.5	56.0	19.6	34.9	11.0	112.9	150.7
	S.D.	15.0	31	0.5	1.3	1.9	0.7	0.4	0.1	12.2	27.2
2-Methylhexane 300 mg/kg	n	5	5	5	5	5	5	5	5	5	5
	Mean	54.0	737	14.6	41.7	56.6	19.7	34.9	11.1	118.1	158.3
	S.D.	9.6	31	0.4	1.3	1.5	0.5	0.2	0.3	13.0	25.9
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5	5	5	5	5
	Mean	59.6	736	14.7	41.4	56.3	20.0	35.6	11.0	115.6	138.6
	S.D.	17.0	24	0.4	1.4	1.0	0.3	0.5	0.2	10.0	28.3
		NEUT	LYMP	MONO	EOS	BASO	LUC				
		10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL				
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5				
	Mean	11.3	48.6	1.4	1.0	0.1	0.6				
	S.D.	3.8	6.7	0.4	0.3	0.1	0.3				
2-Methylhexane 100 mg/kg	n	5	5	5	5	5	5				
	Mean	8.2	59.0	1.5	0.8	0.1	0.5				
	S.D.	3.3	14.3	0.5	0.3	0.1	0.1				
2-Methylhexane 300 mg/kg	n	5	5	5	5	5	5				
	Mean	8.1	44.1	0.7	0.7	0.1	0.3				
	S.D.	3.0	9.1	0.2	0.2	0.1	0.1				
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5				
	Mean	11.6	45.1	1.3	1.0	0.1	0.5				
	S.D.	8.9	12.7	0.6	0.4	0.0	0.3				

Not significantly different from 2-Methylhexane 0 mg/kg

Table 6 - 4

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

		Stage : End of recovery								Species : Rat	
Hematology		WBC	RBC	HGB	HCT	MCV	MCH	MCHC	RDW	PLT	Retic
Sex : Female		10 <sup>3</sup> /μL	10 <sup>4</sup> /μL	g/dL	%	fL	pg	g/dL	%	10 <sup>4</sup> /μL	10 <sup>9</sup> /L
Test article	Dose										
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5	5	5	5	5
	Mean	78.1	765	14.7	41.7	54.5	19.3	35.3	11.3	105.8	179.1
	S.D.	23.5	25	0.2	0.4	1.9	0.5	0.7	0.3	5.7	38.9
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5	5	5	5	5
	Mean	60.2	775	14.8	41.9	54.1	19.1	35.4	11.2	115.5	159.2
	S.D.	28.9	33	0.3	0.9	1.8	0.7	0.7	0.5	15.7	44.8
		NEUT	LYMP	MONO	EOS	BASO	LUC				
Test article		10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL				
Dose											
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5				
	Mean	8.8	65.5	1.8	1.0	0.1	0.8				
	S.D.	4.0	22.2	0.4	0.4	0.1	0.4				
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5				
	Mean	6.6	50.4	1.8	0.9	0.1	0.5				
	S.D.	1.1	26.1	1.2	0.3	0.1	0.5				

Not significantly different from 2-Methylhexane 0 mg/kg

Table 7 - 1

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Coagulation tests  
Sex : Male

Stage : End of dosing

Study No. : B-9244

Species : Rat

Test article Dose		PT s	APTT s	FIB mg/dL
2-Methylhexane 0 mg/kg	n	5	5	5
	Mean	10.5	17.1	381
	S.D.	1.1	1.2	18
2-Methylhexane 100 mg/kg	n	5	5	5
	Mean	11.4	16.9	374
	S.D.	1.8	1.3	33
2-Methylhexane 300 mg/kg	n	5	5	5
	Mean	10.5	16.8	383
	S.D.	1.0	1.2	26
2-Methylhexane 1000 mg/kg	n	5	5	5
	Mean	10.9	17.2	405
	S.D.	1.0	1.4	31

Not significantly different from 2-Methylhexane 0 mg/kg

Table 7 - 2

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
 with a Recovery Period for 14 Days  
 Coagulation tests  
 Sex : Male

Study No. : B-9244

Stage : End of recovery

Species : Rat

Test article Dose		PT	APTT	FIB
		s	s	mg/dL
2-Methylhexane 0 mg/kg	n	5	5	5
	Mean	11.9	17.8	395
	S.D.	4.0	2.1	21
2-Methylhexane 1000 mg/kg	n	5	5	5
	Mean	10.6	16.9	403
	S.D.	0.6	1.3	25

Not significantly different from 2-Methylhexane 0 mg/kg

Table 7 - 3

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Coagulation tests

Stage : End of dosing

Sex : Female

Species : Rat

Test article Dose		PT	APTT	FIB
		s	s	mg/dL
2-Methylhexane 0 mg/kg	n	5	5	5
	Mean	8.5	13.8	290
	S.D.	0.3	1.4	15
2-Methylhexane 100 mg/kg	n	5	5	5
	Mean	9.0	13.8	297
	S.D.	0.1	2.0	21
		DT *		
2-Methylhexane 300 mg/kg	n	5	5	5
	Mean	8.7	15.1	290
	S.D.	0.3	1.2	22
2-Methylhexane 1000 mg/kg	n	5	5	5
	Mean	8.8	14.3	308
	S.D.	0.4	0.9	16

Significantly different from 2-Methylhexane 0 mg/kg : \* P&lt;0.05

DT : Dunnett test (two-side)

Table 7 - 4

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Coagulation tests

Stage : End of recovery

Sex : Female

Species : Rat

Test article Dose		PT	APTT	FIB
		s	s	mg/dL
2-Methylhexane 0 mg/kg	n	5	5	5
	Mean	9.2	13.8	269
	S.D.	0.5	2.2	37
2-Methylhexane 1000 mg/kg	n	5	5	5
	Mean	8.9	14.2	274
	S.D.	0.4	1.9	16

Not significantly different from 2-Methylhexane 0 mg/kg



Table 8 - 1

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Blood chemistry  
Sex : Male

Study No. : B-9244

		Stage : End of dosing									Species : Rat	
		AST	ALT	LDH	ALP	r-GTP	T-CHO	TG	PL	T-BIL	GLU	
Test article		IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	
Dose												
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	56	35	44	553	0	67	77	113	0.1	132	
	S.D.	2	7	3	153	0	12	30	19	0.0	22	
2-Methylhexane 100 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	64	34	50	694	0	66	57	108	0.1	123	
	S.D.	10	4	20	147	0	7	20	9	0.0	19	
2-Methylhexane 300 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	59	31	39	658	0	65	58	102	0.0	119	
	S.D.	7	8	6	87	0	11	13	9	0.1	12	
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	64	37	54	569	0	79	24	115	0.1	96	
	S.D.	13	8	13	45	0	16	13	15	0.0	8	
							DT **					DT **
		BUN	CRNN	Na	K	Cl	Ca	P	TP	ALB	A/G	
Test article		mg/dL	mg/dL	mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL		
Dose												
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	16	0.25	145	3.7	105	10.9	7.9	6.2	3.4	1.2	
	S.D.	6	0.03	1	0.4	1	0.3	0.8	0.2	0.2	0.1	
2-Methylhexane 100 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	13	0.25	145	3.6	105	10.9	7.6	6.3	3.5	1.3	
	S.D.	3	0.03	1	0.2	1	0.3	0.6	0.2	0.1	0.0	
2-Methylhexane 300 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	16	0.28	145	3.7	105	10.8	7.6	6.2	3.4	1.2	
	S.D.	3	0.04	1	0.1	1	0.3	0.2	0.1	0.1	0.1	
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	15	0.25	145	3.5	103	11.5	7.4	6.7	3.5	1.1	
	S.D.	3	0.02	1	0.1	1	0.3	0.4	0.1	0.1	0.1	
						DT *	DT *	DT **				

Significantly different from 2-Methylhexane 0 mg/kg : \* P<0.05, \*\* P<0.01  
DT : Dunnett test (two-side)

Table 8 - 2

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Blood chemistry  
Sex : Male

Stage : End of dosing

Study No. : B-9244

Species : Rat

T-BA		
Test article Dose	µmol/L	
2-Methylhexane 0 mg/kg	n	5
	Mean	30.2
	S.D.	14.8
2-Methylhexane 100 mg/kg	n	5
	Mean	35.1
	S.D.	13.6
2-Methylhexane 300 mg/kg	n	5
	Mean	20.4
	S.D.	16.7
2-Methylhexane 1000 mg/kg	n	5
	Mean	47.4
	S.D.	32.1

Not significantly different from 2-Methylhexane 0 mg/kg

Table 8 - 3

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Blood chemistry  
Sex : Male

Study No. : B-9244

		Stage : End of recovery									
		Species : Rat									
		AST	ALT	LDH	ALP	r-GTP	T-CHO	TG	PL	T-BIL	GLU
Test article		IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL
Dose											
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5	5	5	5	5
	Mean	60	36	41	534	0	68	71	117	0.1	151
	S.D.	4	1	5	123	0	12	45	25	0.0	14
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5	5	5	5	5
	Mean	58	33	39	496	0	80	70	132	0.1	143
	S.D.	3	5	9	93	0	14	31	22	0.0	14
		BUN	CRNN	Na	K	Cl	Ca	P	TP	ALB	A/G
Test article		mg/dL	mg/dL	mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL	
Dose											
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5	5	5	5	5
	Mean	20	0.26	145	3.9	105	10.6	7.1	6.2	3.3	1.1
	S.D.	3	0.04	1	0.2	1	0.4	0.2	0.2	0.1	0.0
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5	5	5	5	5
	Mean	21	0.25	145	3.7	107	10.9	7.5	6.5	3.3	1.0
	S.D.	2	0.02	1	0.2	1	0.1	0.4	0.3	0.2	0.1
											T2 *
		T-BA									
Test article		μmol/L									
Dose											
2-Methylhexane 0 mg/kg	n	5									
	Mean	21.4									
	S.D.	13.3									
2-Methylhexane 1000 mg/kg	n	5									
	Mean	18.5									
	S.D.	5.5									

Significantly different from 2-Methylhexane 0 mg/kg : \* P<0.05  
T2 : Student t-test (two-side)

Table 8 - 4

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Blood chemistry  
Sex : Female

Study No. : B-9244

		Stage : End of dosing									Species : Rat	
		AST	ALT	LDH	ALP	r-GTP	T-CHO	TG	PL	T-BIL	GLU	
Test article		IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	
Dose												
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	66	32	45	557	0	60	14	115	0.1	110	
	S.D.	9	8	6	115	0	11	5	24	0.0	9	
2-Methylhexane 100 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	66	33	40	360	0	61	15	112	0.1	110	
	S.D.	6	6	5	51	0	7	4	11	0.0	12	
DT *												
2-Methylhexane 300 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	65	34	42	469	0	64	12	117	0.1	115	
	S.D.	5	10	4	145	0	10	2	16	0.0	4	
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	60	27	38	415	0	70	11	123	0.1	111	
	S.D.	5	4	3	107	1	19	3	26	0.0	13	
DT **												
		BUN	CRNN	Na	K	Cl	Ca	P	TP	ALB	A/G	
Test article		mg/dL	mg/dL	mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL		
Dose												
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	15	0.30	143	3.2	107	10.1	5.5	6.1	3.5	1.4	
	S.D.	3	0.03	2	0.1	2	0.2	0.6	0.3	0.2	0.1	
2-Methylhexane 100 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	12	0.28	142	3.5	106	10.2	5.7	5.9	3.4	1.3	
	S.D.	3	0.02	1	0.1	2	0.2	0.7	0.2	0.1	0.1	
DT *												
2-Methylhexane 300 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	14	0.31	143	3.3	107	10.3	6.1	6.1	3.6	1.4	
	S.D.	2	0.02	2	0.2	1	0.2	1.2	0.3	0.1	0.1	
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	14	0.30	142	3.5	107	10.3	5.6	6.3	3.5	1.3	
	S.D.	1	0.01	1	0.2	2	0.3	0.6	0.2	0.1	0.1	
DT **												

Significantly different from 2-Methylhexane 0 mg/kg : \* P<0.05, \*\* P<0.01  
DT : Dunnett test (two-side)

Table 8 - 5

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Blood chemistry  
Sex : Female

Stage : End of dosing

Study No. : B-9244

Species : Rat

T-BA		
Test article Dose	µmol/L	
2-Methylhexane 0 mg/kg	n	5
	Mean	23.6
	S.D.	4.4
2-Methylhexane 100 mg/kg	n	5
	Mean	29.2
	S.D.	14.3
2-Methylhexane 300 mg/kg	n	5
	Mean	30.3
	S.D.	10.4
2-Methylhexane 1000 mg/kg	n	5
	Mean	14.5
	S.D.	3.6

Not significantly different from 2-Methylhexane 0 mg/kg

Table 8 - 6

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Blood chemistry  
Sex : Female

Study No. : B-9244

		Stage : End of recovery										
		Species : Rat										
		AST	ALT	LDH	ALP	r-GTP	T-CHO	TG	PL	T-BIL	GLU	
Test article		IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	
Dose												
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	59	32	39	322	0	65	51	136	0.1	121	
	S.D.	7	4	6	105	0	5	42	15	0.0	18	
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	56	23	38	242	0	83	45	165	0.1	128	
	S.D.	6	5	7	34	0	13	42	21	0.0	11	
		T2 *					T2 *		T2 *			
		BUN	CRNN	Na	K	Cl	Ca	P	TP	ALB	A/G	
Test article		mg/dL	mg/dL	mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL		
Dose												
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	22	0.34	144	3.5	108	10.4	5.1	6.5	3.7	1.4	
	S.D.	3	0.04	1	0.1	1	0.1	0.7	0.3	0.2	0.1	
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	16	0.32	144	3.4	108	10.5	4.9	6.8	3.9	1.3	
	S.D.	3	0.02	1	0.2	1	0.2	0.8	0.2	0.3	0.1	
		T2 *										
		T-BA										
Test article		µmol/L										
Dose												
2-Methylhexane 0 mg/kg	n	5										
	Mean	31.7										
	S.D.	11.9										
2-Methylhexane 1000 mg/kg	n	5										
	Mean	27.4										
	S.D.	11.6										

Significantly different from 2-Methylhexane 0 mg/kg : \* P<0.05  
T2 : Student t-test (two-side)

Table 9 - 1

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

		Stage : End of dosing										Species : Rat							
		Body weight		Brain		Pituitary gland		Thyroid gland -RL		Salivary gland -RL									
Test article	Dose	n	g	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %						
2-Methylhexane	0 mg/kg	5	368	5	2.03	5	0.55	5	10.5	5	0.0029	5	19.5	5	0.0053	5	664	5	0.181
			S.D.																
			26		0.06		0.03		0.8		0.0004		2.7		0.0008		63		0.017
2-Methylhexane	100 mg/kg	5	357	5	1.97	5	0.55	5	10.2	5	0.0029	5	19.3	5	0.0055	5	604	5	0.169
			S.D.																
			15		0.10		0.01		1.7		0.0005		5.2		0.0016		65		0.020
2-Methylhexane	300 mg/kg	5	369	5	2.02	5	0.55	5	11.4	5	0.0031	5	18.3	5	0.0050	5	653	5	0.177
			S.D.																
			17		0.09		0.03		0.9		0.0003		4.5		0.0010		15		0.012
2-Methylhexane	1000 mg/kg	5	359	5	2.05	5	0.57	5	10.8	5	0.0030	5	22.7	5	0.0063	5	590	5	0.165
			S.D.																
			26		0.09		0.04		1.3		0.0002		5.3		0.0011		10		0.011
		Thymus		Heart		Lung		Liver		Spleen									
Test article	Dose	n	AB mg	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g	RE %					
2-Methylhexane	0 mg/kg	5	492	5	1.25	5	0.34	5	1.33	5	0.36	5	10.43	5	2.82	5	0.58	5	0.16
			S.D.																
			73		0.11		0.03		0.12		0.02		1.19		0.16		0.10		0.02
2-Methylhexane	100 mg/kg	5	443	5	1.17	5	0.33	5	1.29	5	0.36	5	10.20	5	2.86	5	0.60	5	0.17
			S.D.																
			65		0.014		0.05		0.08		0.01		0.90		0.17		0.10		0.02
2-Methylhexane	300 mg/kg	5	476	5	1.26	5	0.34	5	1.35	5	0.37	5	11.28	5	3.06	5	0.59	5	0.16
			S.D.																
			118		0.026		0.09		0.09		0.02		0.48		0.08		0.07		0.02
2-Methylhexane	1000 mg/kg	5	455	5	1.23	5	0.34	5	1.30	5	0.36	5	14.26	5	3.97	5	0.65	5	0.18
			S.D.																
			178		0.043		0.08		0.11		0.02		1.86		0.34		0.12		0.03
										DT **	DT **								

AB : Absolute weight, RE : Relative weight by body weight  
Significantly different from 2-Methylhexane 0 mg/kg : \*\* P<0.01  
DT : Dunnett test (two-side)

Table 9 - 2

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Organ weight  
Sex : Male

Study No. : B-9244

Test article Dose	Stage : End of dosing														
	Kidney-RL				Adrenal gland -RL		Testis-RL		Prostate		Epididymis-RL				
	n	AB g	RE %	n	AB mg	RE %	n	AB g	RE %	n	AB mg	RE %			
2-Methylhexane 0 mg/kg	5	2.69	0.73	5	58	0.016	5	3.22	0.88	5	0.86	0.24	5	928	0.253
	Mean	0.17	0.05	7	0.002	0.24	0.10	0.11	0.03	56	0.028				
2-Methylhexane 100 mg/kg	5	2.84	0.80	5	55	0.016	5	3.03	0.85	5	0.80	0.22	5	915	0.256
	Mean	0.29	0.06	7	0.002	0.20	0.09	0.13	0.03	53	0.009				
2-Methylhexane 300 mg/kg	5	3.02	0.82	5	66	0.018	5	3.20	0.87	5	0.95	0.26	5	934	0.254
	Mean	0.32	0.10	7	0.002	0.18	0.08	0.16	0.05	37	0.019				
2-Methylhexane 1000 mg/kg	5	3.44	0.95	5	55	0.015	5	3.08	0.86	5	0.80	0.23	5	845	0.236
	Mean	0.49	0.10	8	0.003	0.17	0.07	0.09	0.04	28	0.012				
		DT **	DT **										DT *		
Seminal vesicle															
Test article Dose	n	AB g	RE %	n	AB g	RE %									
	Mean	S.D.		Mean	S.D.										
2-Methylhexane 0 mg/kg	5	1.18	0.32	5	1.18	0.32									
	Mean	0.10	0.04												
2-Methylhexane 100 mg/kg	5	1.19	0.33	5	1.19	0.33									
	Mean	0.18	0.05												
2-Methylhexane 300 mg/kg	5	1.19	0.32	5	1.19	0.32									
	Mean	0.07	0.02												
2-Methylhexane 1000 mg/kg	5	1.04	0.29	5	1.04	0.29									
	Mean	0.09	0.04												

AB : Absolute weight, RE : Relative weight by body weight  
Significantly different from 2-Methylhexane 0 mg/kg : \* P<0.05, \*\* P<0.01  
DT : Dunnett test (two-side)



Table 9 - 3

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Organ weight

Stage : End of recovery

Species : Rat

Sex : Male

Test article Dose	n	Body weight	Brain		Pituitary gland		Thyroid gland -RL		Salivary gland -RL		
		g	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %	
2-Methylhexane 0 mg/kg	5	5	5	5	5	5	5	5	5	5	
	Mean	443	2.17	0.49	11.7	0.0027	23.8	0.0054	808	0.182	
	S.D.	33	0.12	0.02	1.2	0.0003	2.5	0.0005	88	0.010	
2-Methylhexane 1000 mg/kg	5	5	5	5	5	5	5	5	5	5	
	Mean	409	2.07	0.51	12.3	0.0030	23.9	0.0059	695	0.170	
	S.D.	14	0.07	0.02	1.0	0.0002	3.0	0.0009	61	0.010	
					T2 *				T2 *		
Test article Dose	n	Thymus		Heart		Lung		Liver		Spleen	
		AB mg	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g	RE %
2-Methylhexane 0 mg/kg	5	5	5	5	5	5	5	5	5	5	5
	Mean	421	0.095	1.45	0.33	1.52	0.34	12.56	2.83	0.77	0.17
	S.D.	49	0.008	0.10	0.02	0.05	0.03	1.53	0.14	0.06	0.01
2-Methylhexane 1000 mg/kg	5	5	5	5	5	5	5	5	5	5	5
	Mean	449	0.110	1.35	0.33	1.41	0.34	13.10	3.20	0.76	0.18
	S.D.	109	0.026	0.13	0.02	0.06	0.01	0.87	0.19	0.13	0.03
						T2 *			T2 **		
Test article Dose	n	Kidney-RL		Adrenal gland -RL		Testis-RL		Prostate		Epididymis-RL	
		AB g	RE %	AB mg	RE %	AB g	RE %	AB g	RE %	AB mg	RE %
2-Methylhexane 0 mg/kg	5	5	5	5	5	5	5	5	5	5	5
	Mean	3.40	0.77	60	0.014	3.41	0.77	1.10	0.25	1139	0.258
	S.D.	0.49	0.10	6	0.001	0.35	0.10	0.23	0.04	86	0.022
2-Methylhexane 1000 mg/kg	5	5	5	5	5	5	5	5	5	5	5
	Mean	3.24	0.79	62	0.015	3.26	0.80	1.03	0.25	1070	0.262
	S.D.	0.30	0.07	7	0.001	0.37	0.08	0.15	0.03	90	0.018

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

Significantly different from 2-Methylhexane 0 mg/kg : \* P&lt;0.05, \*\* P&lt;0.01

T2 : Student t-test (two-side)

Table 9 - 4

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Organ weight  
Sex : Male

Study No. : B-9244

Stage : End of recovery

Species : Rat

Test article Dose	Seminal vesicle		
		AB g	RE %
2-Methylhexane 0 mg/kg	n	5	5
	Mean	1.47	0.33
	S.D.	0.14	0.03
2-Methylhexane 1000 mg/kg	n	5	5
	Mean	1.31	0.32
	S.D.	0.10	0.02

AB : Absolute weight, RE : Relative weight by body weight  
Not significantly different from 2-Methylhexane 0 mg/kg

Table 9 - 5

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Organ weight		Stage : End of dosing										Species : Rat
Test article Dose	n	Body weight	Brain		Pituitary gland		Thyroid gland -RL		Salivary gland -RL		RE %	
		g	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %		
2-Methylhexane 0 mg/kg	5	217	5	5	5	5	5	5	5	5	5	
	Mean	217	1.92	0.89	13.1	0.0060	17.1	0.0079	413	0.190		
	S.D.	17	0.12	0.09	2.1	0.0010	3.7	0.0015	31	0.010		
2-Methylhexane 100 mg/kg	5	230	5	5	5	5	5	5	5	5	5	
	Mean	230	1.91	0.83	12.5	0.0054	15.6	0.0067	418	0.182		
	S.D.	12	0.05	0.05	1.0	0.0004	3.2	0.0015	25	0.010		
2-Methylhexane 300 mg/kg	5	222	5	5	5	5	5	5	5	5	5	
	Mean	222	1.93	0.88	13.6	0.0062	14.6	0.0066	440	0.199		
	S.D.	21	0.09	0.12	0.5	0.0006	3.2	0.0019	24	0.022		
2-Methylhexane 1000 mg/kg	5	227	5	5	5	5	5	5	5	5	5	
	Mean	227	1.91	0.84	13.1	0.0058	15.8	0.0069	423	0.186		
	S.D.	5	0.07	0.04	1.8	0.0009	1.9	0.0008	43	0.015		
Test article Dose	n	Thymus	Heart		Lung		Liver		Spleen		RE %	
		AB mg	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g		RE %
2-Methylhexane 0 mg/kg	5	438	5	5	5	5	5	5	5	5	5	
	Mean	438	0.204	0.79	0.37	1.02	0.47	6.21	2.86	0.41	0.19	
	S.D.	57	0.039	0.06	0.03	0.04	0.03	0.66	0.19	0.05	0.01	
2-Methylhexane 100 mg/kg	5	415	5	5	5	5	5	5	5	5	5	
	Mean	415	0.181	0.87	0.38	1.04	0.45	6.44	2.80	0.45	0.19	
	S.D.	88	0.040	0.05	0.01	0.02	0.02	0.32	0.06	0.07	0.04	
2-Methylhexane 300 mg/kg	5	368	5	5	5	5	5	5	5	5	5	
	Mean	368	0.166	0.78	0.35	1.03	0.47	6.53	2.94	0.43	0.19	
	S.D.	31	0.018	0.04	0.02	0.05	0.03	0.55	0.14	0.05	0.02	
2-Methylhexane 1000 mg/kg	5	415	5	5	5	5	5	5	5	5	5	
	Mean	415	0.183	0.81	0.36	1.05	0.46	7.09	3.12	0.45	0.20	
	S.D.	38	0.018	0.07	0.03	0.07	0.03	0.38	0.12	0.09	0.04	
								DT *	DT *			

AB : Absolute weight, RE : Relative weight by body weight  
Significantly different from 2-Methylhexane 0 mg/kg : \* P<0.05  
DT : Dunnett test (two-side)

Table 9 - 6

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Organ weight  
Sex : Female

Study No. : B-9244

Test article Dose		Stage : End of dosing										Species : Rat
		Kidney-RL		Adrenal gland -RL		Ovary-RL		Uterus				
		AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %			
2-Methylhexane 0 mg/kg	n	5	5	5	5	5	5	5	5	5	5	
	Mean	1.68	0.78	60	0.028	87.6	0.0403	481	0.2234			
	S.D.	0.21	0.05	10	0.003	8.2	0.0012	129	0.0675			
2-Methylhexane 100 mg/kg	n	5	5	5	5	5	5	5	5	5		
	Mean	1.87	0.81	60	0.026	83.4	0.0364	492	0.2132			
	S.D.	0.26	0.07	11	0.004	7.5	0.0049	117	0.0478			
2-Methylhexane 300 mg/kg	n	5	5	5	5	5	5	5	5	5		
	Mean	1.71	0.77	63	0.029	84.9	0.0383	523	0.2379			
	S.D.	0.14	0.04	7	0.006	9.8	0.0045	97	0.0548			
2-Methylhexane 1000 mg/kg	n	5	5	5	5	5	5	5	5	5		
	Mean	1.76	0.77	67	0.029	93.2	0.0410	466	0.2046			
	S.D.	0.14	0.04	6	0.003	13.6	0.0063	140	0.0595			

AB : Absolute weight, RE : Relative weight by body weight  
Not significantly different from 2-Methylhexane 0 mg/kg

Table 9 - 7

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Organ weight  
Sex : Female

Stage : End of recovery

Study No. : B-9244

Test article Dose	n	Species : Rat										
		Body weight	Brain		Pituitary gland		Thyroid gland -RL		Salivary gland -RL		RE %	
		g	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %		
2-Methylhexane 0 mg/kg	5	238	1.94	0.82	14.5	0.0061	16.1	0.0068	430	0.181	5	
		S.D.	10	0.08	0.04	2.6	0.0008	1.9	0.0009	46	0.015	5
2-Methylhexane 1000 mg/kg	5	226	1.95	0.87	11.5	0.0051	15.8	0.0071	390	0.173	5	
		S.D.	22	0.06	0.08	2.4	0.0010	1.6	0.0012	36	0.016	5

Test article Dose	n	Species : Rat											
		Thymus	Heart		Lung		Liver		Spleen		RE %		
		AB mg	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g		RE %	
2-Methylhexane 0 mg/kg	5	342	0.144	0.89	0.37	1.10	0.46	6.22	2.61	0.46	0.20	5	
		S.D.	64	0.026	0.07	0.02	0.09	0.04	0.49	0.12	0.05	0.02	5
2-Methylhexane 1000 mg/kg	5	315	0.139	0.81	0.36	1.04	0.46	6.24	2.76	0.43	0.19	5	
		S.D.	46	0.013	0.08	0.03	0.09	0.03	0.84	0.17	0.05	0.02	5

Test article Dose	n	Species : Rat									
		Kidney-RL	Adrenal gland -RL		Ovary-RL		Uterus		RE %		
		AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg		RE %	
2-Methylhexane 0 mg/kg	5	1.71	0.72	58	0.024	72.1	0.0303	519	0.2181	5	
		S.D.	0.12	0.02	6	0.002	10.3	0.0045	110	0.0444	5
2-Methylhexane 1000 mg/kg	5	1.63	0.72	58	0.026	80.9	0.0360	517	0.2255	5	
		S.D.	0.23	0.04	8	0.004	9.2	0.0047	205	0.0758	5

AB : Absolute weight, RE : Relative weight by body weight  
Not significantly different from 2-Methylhexane 0 mg/kg

Table 10-1      2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Gross pathological findings (End of dosing period)

Organs	Sex:	M	M	M	M
	Dose (mg/kg):	0	100	300	1000
Findings	Number:	5	5	5	5
All tissues					
Not remarkable		5	5	5	5

M : Male

Table 10-2      2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Gross pathological findings (End of dosing period)

Organs	Sex:	F	F	F	F
	Dose (mg/kg):	0	100	300	1000
Findings	Number:	5	5	5	5
All tissues					
Not remarkable		5	5	5	5

F : Female

Table 10-3      2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Gross pathological findings (End of recovery period)

Organs	Sex:	M	M
	Dose (mg/kg):	0	1000
Findings	Number:	5	5
All tissues			
Not remarkable		5	5

M : Male



Table 10-4      2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Gross pathological findings (End of recovery period)

Organs	Sex:	F	F
	Dose (mg/kg):	0	1000
Findings	Number:	5	5
All tissues			
Not remarkable		5	5

F : Female

Table 11-1 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Histopathological findings (End of dosing period)

Organs	Sex:	M	M	M	M
	Dose (mg/kg):	0	100	300	1000
Findings	Number:	5	5	5	5
<b>Adrenal</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Aorta, thoracic</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Bone, femur</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Bone, sternum</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Bone marrow, femur</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Bone marrow, sternum</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Brain (cerebrum, cerebellum, pons)</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Coagulating gland</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Epididymis</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Esophagus</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Eye</b>					
Number examined		5	0	0	5
Not remarkable		4	0	0	5
Retinal fold		1	0	0	0
minimal		1	0	0	0
<b>Heart</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Intestine, cecum</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Intestine, colon</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5

M : Male

Table 11-2 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Histopathological findings (End of dosing period)

Organs	Sex:	M	M	M	M
	Dose (mg/kg):	0	100	300	1000
Findings	Number:	5	5	5	5
Intestine, duodenum					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Intestine, ileum					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Intestine, jejunum					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Intestine, rectum					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Kidney					
Number examined		5	5	5	5
Not remarkable		5	2	0	0
Cyst		0	1	1	1
minimal		0	1	1	1
Regeneration, tubule		0	1	2	3
minimal		0	1	1	2
mild		0	0	1	1
Hyaline droplet, tubular cell		0	3	5	5
minimal		0	3	1	0
mild		0	0	4	5
Cast, granular		0	0	0	2
minimal		0	0	0	2
Kidney (IHC, alpha-2u globrin)					
Number examined		2	0	0	2
Not remarkable		2	0	0	0
Alpha-2u globrin positive droplet		0	0	0	2
present		0	0	0	2
Liver					
Number examined		5	5	5	5
Not remarkable		5	5	5	0
Hypertrophy, hepatocyte, centrilobular		0	0	0	5
minimal		0	0	0	1
mild		0	0	0	4
Lung (bronchus)					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Lymph node, mesenteric					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Lymph node, submandibular					
Number examined		5	0	0	5
Not remarkable		5	0	0	5

M : Male

Table 11-3 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Histopathological findings (End of dosing period)

Organs	Sex:	M	M	M	M
	Dose (mg/kg):	0	100	300	1000
Findings	Number:	5	5	5	5
Mammary gland, inguinal					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Medulla oblongata					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Muscle, quadriceps femoris					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Optic nerve					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Pancreas					
Number examined		5	0	0	5
Not remarkable		5	0	0	4
Atrophy, acinar, focal		0	0	0	1
minimal		0	0	0	1
Parathyroid					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Peyer's patch, ileal					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Pituitary					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Prostate					
Number examined		5	0	0	5
Not remarkable		4	0	0	5
Infiltrate, inflammatory cell		1	0	0	0
minimal		1	0	0	0
Salivary gland, sublingual					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Salivary gland, submandibular					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Sciatic nerve					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Seminal vesicle					
Number examined		5	0	0	5
Not remarkable		5	0	0	5

M : Male

Table 11-4 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Histopathological findings (End of dosing period)

Organs	Sex:	M	M	M	M
	Dose (mg/kg):	0	100	300	1000
Findings	Number:	5	5	5	5
Skin, inguinal					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Spinal cord (cervical, thoracic, lumbar)					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Spleen					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Stomach					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Testis					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Thymus					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Thyroid					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Tongue					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Trachea					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Urinary bladder					
Number examined		5	0	0	5
Not remarkable		5	0	0	5

M : Male

Table 11-5 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Histopathological findings (End of dosing period)

Organs	Sex:	F	F	F	F
	Dose (mg/kg):	0	100	300	1000
Findings	Number:	5	5	5	5
<b>Adrenal</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Aorta, thoracic</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Bone, femur</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Bone, sternum</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Bone marrow, femur</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Bone marrow, sternum</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Brain (cerebrum, cerebellum, pons)</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Esophagus</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Eye</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Heart</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Intestine, cecum</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Intestine, colon</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Intestine, duodenum</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Intestine, ileum</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5

F : Female

Table 11-6 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Histopathological findings (End of dosing period)

Organs	Sex:	F	F	F	F
	Dose (mg/kg):	0	100	300	1000
Findings	Number:	5	5	5	5
Intestine, jejunum					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Intestine, rectum					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Kidney					
Number examined		5	0	0	5
Not remarkable		5	0	0	4
Cyst		0	0	0	1
minimal		0	0	0	1
Liver					
Number examined		5	0	0	5
Not remarkable		2	0	0	2
Vacuolation, hepatocyte, periportal		3	0	0	3
minimal		3	0	0	3
Lung (bronchus)					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Lymph node, mesenteric					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Lymph node, submandibular					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Mammary gland, inguinal					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Medulla oblongata					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Muscle, quadriceps femoris					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Optic nerve					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Ovary					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
Pancreas					
Number examined		5	0	0	5
Not remarkable		5	0	0	5

F : Female

Table 11-7 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Histopathological findings (End of dosing period)

Organs	Sex:	F	F	F	F
	Dose (mg/kg):	0	100	300	1000
Findings	Number:	5	5	5	5
<b>Parathyroid</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Peyer's patch, ileal</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Pituitary</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Salivary gland, sublingual</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Salivary gland, submandibular</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Sciatic nerve</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Skin, inguinal</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Spinal cord (cervical, thoracic, lumbar)</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Spleen</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Stomach</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Thymus</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Thyroid</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Tongue</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5
<b>Trachea</b>					
Number examined		5	0	0	5
Not remarkable		5	0	0	5

F : Female



Table 11-8 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Histopathological findings (End of dosing period)

Organs	Sex:	F	F	F	F
	Dose (mg/kg):	0	100	300	1000
Findings	Number:	5	5	5	5
Urinary bladder					
	Number examined	5	0	0	5
	Not remarkable	5	0	0	5
Uterus (cervix, horn)					
	Number examined	5	0	0	5
	Not remarkable	5	0	0	5
Vagina					
	Number examined	5	0	0	5
	Not remarkable	5	0	0	5

F : Female

Table 11-9 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Histopathological findings (End of recovery period)

Organs	Sex:	M	M
Findings	Dose (mg/kg):	0	1000
	Number:	5	5
Adrenal			
Number examined		5	5
Not remarkable		5	5
Aorta, thoracic			
Number examined		5	5
Not remarkable		5	5
Bone, femur			
Number examined		5	5
Not remarkable		5	5
Bone, sternum			
Number examined		5	5
Not remarkable		5	5
Bone marrow, femur			
Number examined		5	5
Not remarkable		5	5
Bone marrow, sternum			
Number examined		5	5
Not remarkable		5	5
Brain (cerebrum, cerebellum, pons)			
Number examined		5	5
Not remarkable		5	5
Coagulating gland			
Number examined		5	5
Not remarkable		5	5
Epididymis			
Number examined		5	5
Not remarkable		5	5
Esophagus			
Number examined		5	5
Not remarkable		5	5
Eye			
Number examined		5	5
Not remarkable		5	5
Heart			
Number examined		5	5
Not remarkable		5	3
Infiltrate, inflammatory cell, myocar		0	2
minimal		0	2
Intestine, cecum			
Number examined		5	5
Not remarkable		5	5
Intestine, colon			
Number examined		5	5
Not remarkable		5	5

M : Male

Table 11-10 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Histopathological findings (End of recovery period)

Organs	Sex:	M	M
Findings	Dose (mg/kg):	0	1000
	Number:	5	5
Intestine, duodenum			
Number examined		5	5
Not remarkable		5	5
Intestine, ileum			
Number examined		5	5
Not remarkable		5	5
Intestine, jejunum			
Number examined		5	5
Not remarkable		5	5
Intestine, rectum			
Number examined		5	5
Not remarkable		5	5
Kidney			
Number examined		5	5
Not remarkable		4	0
Cyst		0	1
minimal		0	1
Regeneration, tubule		0	5
minimal		0	2
mild		0	3
Hyaline droplet, tubular cell		1	0
minimal		1	0
Cast, granular		0	1
minimal		0	1
Liver			
Number examined		5	5
Not remarkable		5	5
Lung (bronchus)			
Number examined		5	5
Not remarkable		5	5
Lymph node, mesenteric			
Number examined		5	5
Not remarkable		5	5
Lymph node, submandibular			
Number examined		5	5
Not remarkable		5	5
Mammary gland, inguinal			
Number examined		5	5
Not remarkable		5	5
Medulla oblongata			
Number examined		5	5
Not remarkable		5	5
Muscle, quadriceps femoris			
Number examined		5	5
Not remarkable		5	5

M : Male

Table 11-11 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Histopathological findings (End of recovery period)

Organs	Sex:	M	M
Findings	Dose (mg/kg):	0	1000
	Number:	5	5
Optic nerve			
Number examined		5	5
Not remarkable		5	5
Pancreas			
Number examined		5	5
Not remarkable		5	5
Parathyroid			
Number examined		4	5
Not remarkable		4	5
No sample		1	0
Peyer's patch, ileal			
Number examined		5	5
Not remarkable		5	5
Pituitary			
Number examined		5	5
Not remarkable		5	5
Prostate			
Number examined		5	5
Not remarkable		4	5
Infiltrate, inflammatory cell		1	0
minimal		1	0
Salivary gland, sublingual			
Number examined		5	5
Not remarkable		5	5
Salivary gland, submandibular			
Number examined		5	5
Not remarkable		5	5
Sciatic nerve			
Number examined		5	5
Not remarkable		5	5
Seminal vesicle			
Number examined		5	5
Not remarkable		5	5
Skin, inguinal			
Number examined		5	5
Not remarkable		5	5
Spinal cord (cervical, thoracic, lumbar)			
Number examined		5	5
Not remarkable		5	5
Spleen			
Number examined		5	5
Not remarkable		5	5

M : Male

Table 11-12 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Histopathological findings (End of recovery period)

Organs	Sex:	M	M
Findings	Dose (mg/kg):	0	1000
	Number:	5	5
Stomach			
Number examined		5	5
Not remarkable		5	5
Testis			
Number examined		5	5
Not remarkable		5	5
Thymus			
Number examined		5	5
Not remarkable		5	5
Thyroid			
Number examined		5	5
Not remarkable		5	5
Tongue			
Number examined		5	5
Not remarkable		5	5
Trachea			
Number examined		5	5
Not remarkable		5	5
Urinary bladder			
Number examined		5	5
Not remarkable		5	5

M : Male

Table 11-13 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Histopathological findings (End of recovery period)

Organs	Sex:	F	F
Findings	Dose (mg/kg):	0	1000
	Number:	5	5
Adrenal			
Number examined		5	5
Not remarkable		5	5
Aorta, thoracic			
Number examined		5	5
Not remarkable		5	5
Bone, femur			
Number examined		5	5
Not remarkable		5	5
Bone, sternum			
Number examined		5	5
Not remarkable		5	5
Bone marrow, femur			
Number examined		5	5
Not remarkable		5	5
Bone marrow, sternum			
Number examined		5	5
Not remarkable		5	5
Brain (cerebrum, cerebellum, pons)			
Number examined		5	5
Not remarkable		5	5
Esophagus			
Number examined		5	5
Not remarkable		5	5
Eye			
Number examined		5	5
Not remarkable		5	5
Heart			
Number examined		5	5
Not remarkable		5	5
Intestine, cecum			
Number examined		5	5
Not remarkable		5	5
Intestine, colon			
Number examined		5	5
Not remarkable		5	5
Intestine, duodenum			
Number examined		5	5
Not remarkable		5	5
Intestine, ileum			
Number examined		5	5
Not remarkable		5	5

F : Female

Table 11-14 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Histopathological findings (End of recovery period)

Organs	Sex:	F	F
	Dose (mg/kg):	0	1000
Findings	Number:	5	5
Intestine, jejunum			
Number examined		5	5
Not remarkable		5	5
Intestine, rectum			
Number examined		5	5
Not remarkable		5	5
Kidney			
Number examined		5	5
Not remarkable		5	5
Liver			
Number examined		5	5
Not remarkable		5	5
Lung (bronchus)			
Number examined		5	5
Not remarkable		5	5
Lymph node, mesenteric			
Number examined		5	5
Not remarkable		5	5
Lymph node, submandibular			
Number examined		5	5
Not remarkable		5	5
Mammary gland, inguinal			
Number examined		5	5
Not remarkable		5	5
Medulla oblongata			
Number examined		5	5
Not remarkable		5	5
Muscle, quadriceps femoris			
Number examined		5	5
Not remarkable		5	5
Optic nerve			
Number examined		5	5
Not remarkable		5	5
Ovary			
Number examined		5	5
Not remarkable		4	5
Cyst		1	0
minimal		1	0
Pancreas			
Number examined		5	5
Not remarkable		5	5
Parathyroid			
Number examined		5	4
Not remarkable		5	4

F : Female

Table 11-15 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Histopathological findings (End of recovery period)

Organs	Sex:	F	F
	Dose (mg/kg):	0	1000
Findings	Number:	5	5
Parathyroid (continued)			
No sample		0	1
Peyer's patch, ileal			
Number examined		5	5
Not remarkable		5	5
Pituitary			
Number examined		5	5
Not remarkable		5	5
Salivary gland, sublingual			
Number examined		5	5
Not remarkable		5	5
Salivary gland, submandibular			
Number examined		5	5
Not remarkable		5	5
Sciatic nerve			
Number examined		5	5
Not remarkable		5	5
Skin, inguinal			
Number examined		5	5
Not remarkable		5	5
Spinal cord (cervical, thoracic, lumbar)			
Number examined		5	5
Not remarkable		5	5
Spleen			
Number examined		5	5
Not remarkable		5	5
Stomach			
Number examined		5	5
Not remarkable		5	5
Thymus			
Number examined		5	5
Not remarkable		5	5
Thyroid			
Number examined		5	5
Not remarkable		5	5
Tongue			
Number examined		5	5
Not remarkable		5	5
Trachea			
Number examined		5	5
Not remarkable		5	5

F : Female



Table 11-16 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days  
Histopathological findings (End of recovery period)

Organs	Sex:	F	F
Findings	Dose (mg/kg):	0	1000
	Number:	5	5
Urinary bladder			
Number examined		5	5
Not remarkable		5	5
Uterus (cervix, horn)			
Number examined		5	5
Not remarkable		5	5
Vagina			
Number examined		5	5
Not remarkable		5	5

F : Female

Clinical sign  
Sex : Male

Period : Administration Day 1-29  
Dose : 2-Methylhexane 0 mg/kg

Species : Rat

Animal No.	Clinical signs	Day																		
		1			2			3			4			5			6			
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1001	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1002	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1003	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1004	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1005	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1006	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1007	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1008	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1009	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1010	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Animal No.	Clinical signs	Day																		
		7			8			9			10			11			12			13
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1001	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1002	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1003	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1004	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1005	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1006	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1007	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1008	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1009	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1010	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Animal No.	Clinical signs	Day																		
		14			15			16			17			18			19			20
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1001	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1002	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1003	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1004	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1005	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1006	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1007	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1008	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1009	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1010	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Administration)1 : Pre, 2 : IM, 3 : 1-3h

Clinical sign		Period : Administration Day 1-29												Species : Rat			
Sex : Male		Dose : 2-Methylhexane 0 mg/kg															
Animal No.	Clinical signs	Day 21			Day 22			Day 23		Day 24		Day 25			Day 26		
		Time	1	2	3	1	2	3	1	2	1	2	3	1	2	3	
1001	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1002	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1003	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1004	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1005	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1006	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1007	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1008	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1009	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1010	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Animal No.	Clinical signs	Day 27			Day 28			Day 29									
		Time	1	2	3	1	2	3	4								
1001	No abnormality	-	-	-	-	-	-	-									
1002	No abnormality	-	-	-	-	-	-	-									
1003	No abnormality	-	-	-	-	-	-	-									
1004	No abnormality	-	-	-	-	-	-	-									
1005	No abnormality	-	-	-	-	-	-	-									
1006	No abnormality	-	-	-	-	-	-	-									
1007	No abnormality	-	-	-	-	-	-	-									
1008	No abnormality	-	-	-	-	-	-	-									
1009	No abnormality	-	-	-	-	-	-	-									
1010	No abnormality	-	-	-	-	-	-	-									

Administration)1 : Pre, 2 : IM, 3 : 1-3h, 4 : Necropsy

Appendix 1 - 3

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Animal No.	Clinical signs	Period : Recovery Day 1-15														Species : Rat	
		Dose : 2-Methylhexane 0 mg/kg															
		Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		Time	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
1006	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1007	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1008	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1009	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1010	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Recovery)1 : Morning, 2 : Necropsy

Clinical sign		Period : Administration Day 1-29												Species : Rat								
Sex : Male		Dose : 2-Methylhexane 100 mg/kg																				
Animal No.	Clinical signs	Day 1			2			3			4			5			6					
		Time	1	2	3	1	2	3	1	2	1	2	3	1	2	1	2	3				
2001	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2002	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2003	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2004	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2005	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Animal No.	Clinical signs	Day 7			8			9			10			11			12			13		
		Time	1	2	3	1	2	3	1	2	1	2	1	2	3	1	2	3	1	2	3	
2001	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2002	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2003	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2004	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2005	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Animal No.	Clinical signs	Day 14			15			16			17			18			19			20		
		Time	1	2	1	2	3	1	2	1	2	1	2	3	1	2	3	1	2	3		
2001	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2002	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2003	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2004	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2005	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Animal No.	Clinical signs	Day 21			22			23			24			25			26					
		Time	1	2	3	1	2	3	1	2	1	2	1	2	3	1	2	3				
2001	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2002	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2003	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2004	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2005	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Animal No.	Clinical signs	Day 27			28			29														
		Time	1	2	3	1	2	3	4													
2001	No abnormality	-	-	-	-	-	-	-														
2002	No abnormality	-	-	-	-	-	-	-														
2003	No abnormality	-	-	-	-	-	-	-														
2004	No abnormality	-	-	-	-	-	-	-														
2005	No abnormality	-	-	-	-	-	-	-														

Administration)1 : Pre, 2 : IM, 3 : 1-3h, 4 : Necropsy

Clinical sign		Period : Administration Day 1-29																		Species : Rat		
Sex : Male		Dose : 2-Methylhexane 300 mg/kg																				
Animal No.	Clinical signs	Day 1			2			3			4			5			6					
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3		
3001	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3002	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3003	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3004	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3005	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Animal No.	Clinical signs	Day 7			8			9			10			11			12			13		
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2
3001	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3002	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3003	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3004	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3005	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Animal No.	Clinical signs	Day 14			15			16			17			18			19			20		
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2
3001	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3002	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3003	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3004	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3005	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Animal No.	Clinical signs	Day 21			22			23			24			25			26					
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3		
3001	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3002	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3003	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3004	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3005	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Animal No.	Clinical signs	Day 27			28			29														
		Time	1	2	3	1	2	3	4													
3001	No abnormality	-	-	-	-	-	-	-														
3002	No abnormality	-	-	-	-	-	-	-														
3003	No abnormality	-	-	-	-	-	-	-														
3004	No abnormality	-	-	-	-	-	-	-														
3005	No abnormality	-	-	-	-	-	-	-														

Administration)1 : Pre, 2 : IM, 3 : 1-3h, 4 : Necropsy

Clinical sign  
Sex : Male

Period : Administration Day 1-29  
Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

Animal No.	Clinical signs	Day																	
		1			2			3			4			5			6		
		Time	1	2	3	1	2	3	1	2	1	2	3	1	2	1	2	3	
4001	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4002	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4003	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4004	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4005	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4006	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4007	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4008	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4009	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4010	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Animal No.	Clinical signs	Day																		
		7			8			9			10			11			12			13
		Time	1	2	3	1	2	3	1	2	1	2	1	2	3	1	2	1	2	3
4001	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4002	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4003	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4004	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4005	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4006	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4007	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4008	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4009	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4010	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Animal No.	Clinical signs	Day																		
		14			15			16			17			18			19			20
		Time	1	2	1	2	3	1	2	1	2	1	2	3	1	2	1	2	3	
4001	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4002	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4003	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4004	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4005	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4006	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4007	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4008	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4009	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4010	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Administration)1 : Pre, 2 : IM, 3 : 1-3h

Clinical sign  
Sex : Male

Period : Administration Day 1-29  
Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

Animal No.	Clinical signs	Day														
		21			22			23		24		25			26	
		Time	1	2	3	1	2	3	1	2	1	2	3	1	2	3
4001	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4002	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4003	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4004	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4005	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4006	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4007	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4008	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4009	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4010	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Animal No.	Clinical signs	Day							
		27			28			29	
		Time	1	2	3	1	2	3	4
4001	No abnormality	-	-	-	-	-	-	-	-
4002	No abnormality	-	-	-	-	-	-	-	-
4003	No abnormality	-	-	-	-	-	-	-	-
4004	No abnormality	-	-	-	-	-	-	-	-
4005	No abnormality	-	-	-	-	-	-	-	-
4006	No abnormality	-	-	-	-	-	-	-	-
4007	No abnormality	-	-	-	-	-	-	-	-
4008	No abnormality	-	-	-	-	-	-	-	-
4009	No abnormality	-	-	-	-	-	-	-	-
4010	No abnormality	-	-	-	-	-	-	-	-

Administration)1 : Pre, 2 : IM, 3 : 1-3h, 4 : Necropsy



Appendix 1 - 8

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Animal No.	Clinical signs	Period : Recovery Day 1-15														Species : Rat	
		Dose : 2-Methylhexane 1000 mg/kg															
		Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		Time	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
4006	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4007	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4008	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4009	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4010	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Recovery)1 : Morning, 2 : Necropsy

Clinical sign  
Sex : Female

Period : Administration Day 1-29  
Dose : 2-Methylhexane 0 mg/kg

Species : Rat

Animal No.	Clinical signs	Day																	
		1			2			3			4			5			6		
		Time	1	2	3	1	2	3	1	2	1	2	3	1	2	1	2	3	
1101	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1102	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1103	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1104	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1105	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1106	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1107	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1108	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1109	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1110	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Animal No.	Clinical signs	Day																		
		7			8			9			10			11			12			13
		Time	1	2	3	1	2	3	1	2	1	2	1	2	3	1	2	1	2	3
1101	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1102	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1103	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1104	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1105	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1106	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1107	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1108	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1109	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1110	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Animal No.	Clinical signs	Day																		
		14			15			16			17			18			19			20
		Time	1	2	1	2	3	1	2	1	2	1	2	3	1	2	1	2	3	
1101	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1102	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1103	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1104	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1105	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1106	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1107	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1108	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1109	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1110	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Administration)1 : Pre, 2 : IM, 3 : 1-3h

Clinical sign		Period : Administration Day 1-29												Species : Rat			
Sex : Female		Dose : 2-Methylhexane 0 mg/kg															
Animal No.	Clinical signs	Day 21			Day 22			Day 23		Day 24		Day 25			Day 26		
		Time	1	2	3	1	2	3	1	2	1	2	3	1	2	3	
1101	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1102	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1103	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1104	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1105	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1106	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1107	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1108	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1109	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1110	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Animal No.	Clinical signs	Day 27			Day 28			Day 29									
		Time	1	2	3	1	2	3	4								
1101	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
1102	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
1103	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
1104	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
1105	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
1106	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
1107	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
1108	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
1109	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
1110	No abnormality	-	-	-	-	-	-	-	-	-	-	-					

Administration)1 : Pre, 2 : IM, 3 : 1-3h, 4 : Necropsy

Animal No.	Clinical signs	Period : Recovery Day 1-15														Species : Rat	
		Day	1	2	3	4	5	6	7	8	9	10	11	12	13		14
		Time	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
1106	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1107	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1108	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1109	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1110	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Recovery)1 : Morning, 2 : Necropsy

Clinical sign		Period : Administration Day 1-29												Species : Rat								
Sex : Female		Dose : 2-Methylhexane 100 mg/kg																				
Animal No.	Clinical signs	Day 1			2			3			4			5			6					
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3		
2101	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2102	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2103	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2104	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2105	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Animal No.	Clinical signs	Day 7			8			9			10			11			12			13		
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2
2101	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2102	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2103	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2104	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2105	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Animal No.	Clinical signs	Day 14			15			16			17			18			19			20		
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2
2101	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2102	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2103	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2104	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2105	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Animal No.	Clinical signs	Day 21			22			23			24			25			26					
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3		
2101	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2102	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2103	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2104	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2105	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Animal No.	Clinical signs	Day 27			28			29														
		Time	1	2	3	1	2	3	4													
2101	No abnormality	-	-	-	-	-	-	-														
2102	No abnormality	-	-	-	-	-	-	-														
2103	No abnormality	-	-	-	-	-	-	-														
2104	No abnormality	-	-	-	-	-	-	-														
2105	No abnormality	-	-	-	-	-	-	-														

Administration)1 : Pre, 2 : IM, 3 : 1-3h, 4 : Necropsy

Clinical sign		Period : Administration Day 1-29																		Species : Rat		
Sex : Female		Dose : 2-Methylhexane 300 mg/kg																				
Animal No.	Clinical signs	Day 1			2			3			4			5			6					
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3		
3101	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3102	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3103	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3104	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3105	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Animal No.	Clinical signs	Day 7			8			9			10			11			12			13		
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3		
3101	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3102	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3103	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3104	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3105	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Animal No.	Clinical signs	Day 14			15			16			17			18			19			20		
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3		
3101	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3102	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3103	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3104	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3105	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Animal No.	Clinical signs	Day 21			22			23			24			25			26					
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3		
3101	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3102	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3103	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3104	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3105	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Animal No.	Clinical signs	Day 27			28			29														
		Time	1	2	3	1	2	3	4													
3101	No abnormality	-	-	-	-	-	-	-														
3102	No abnormality	-	-	-	-	-	-	-														
3103	No abnormality	-	-	-	-	-	-	-														
3104	No abnormality	-	-	-	-	-	-	-														
3105	No abnormality	-	-	-	-	-	-	-														

Administration)1 : Pre, 2 : IM, 3 : 1-3h, 4 : Necropsy

Clinical sign  
Sex : Female

Period : Administration Day 1-29  
Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

Animal No.	Clinical signs	Day																		
		1			2			3			4			5			6			
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
4101	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4102	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4103	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4104	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4105	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4106	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4107	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4108	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4109	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4110	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Animal No.	Clinical signs	Day																		
		7			8			9			10			11			12			13
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
4101	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4102	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4103	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4104	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4105	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4106	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4107	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4108	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4109	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4110	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Animal No.	Clinical signs	Day																		
		14			15			16			17			18			19			20
		Time	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
4101	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4102	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4103	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4104	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4105	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4106	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4107	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4108	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4109	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4110	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Administration)1 : Pre, 2 : IM, 3 : 1-3h

Clinical sign		Period : Administration Day 1-29												Species : Rat			
Sex : Female		Dose : 2-Methylhexane 1000 mg/kg															
Animal No.	Clinical signs	Day 21			22			23		24		25			26		
		Time	1	2	3	1	2	3	1	2	1	2	3	1	2	3	
4101	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4102	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4103	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4104	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4105	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4106	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4107	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4108	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4109	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4110	No abnormality	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Animal No.	Clinical signs	Day 27				28			29								
		Time	1	2	3	1	2	3	4								
4101	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
4102	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
4103	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
4104	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
4105	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
4106	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
4107	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
4108	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
4109	No abnormality	-	-	-	-	-	-	-	-	-	-	-					
4110	No abnormality	-	-	-	-	-	-	-	-	-	-	-					

Administration)1 : Pre, 2 : IM, 3 : 1-3h, 4 : Necropsy



Animal No.	Clinical signs	Period : Recovery Day 1-15														Species : Rat	
		Dose : 2-Methylhexane 1000 mg/kg															
		Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		Time	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
4106	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4107	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4108	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4109	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4110	No abnormality		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Recovery)1 : Morning, 2 : Necropsy

Appendix 2-1

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : home cage observation (Week 1 of dosing)

Dose (mg/kg) : 0

Parameter	Animal number	Male										Female									
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Posture a)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Convulsion b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-2

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : home cage observation (Week 1 of dosing)  
 Dose (mg/kg) : 100

Parameter	Animal number	Male					Female				
		1	2	3	4	5	1	2	3	4	5
		2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	1	2	3	4	5
Posture a)		N	N	N	N	N	N	N	N	N	N
Convulsion b)		0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-3

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : home cage observation (Week 1 of dosing)  
 Dose (mg/kg) : 300

Parameter	Animal number	Male					Female				
		3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	1	2	3	4	5	
Posture a)		N	N	N	N	N	N	N	N	N	N
Convulsion b)		0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-4

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : home cage observation (Week 1 of dosing)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male										Female									
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Posture a)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Convulsion b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-5

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : home cage observation (Week 2 of dosing)

Dose (mg/kg) : 0

Parameter	Animal number	Male										Female									
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Posture a)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Convulsion b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-6

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : home cage observation (Week 2 of dosing)  
 Dose (mg/kg) : 100

Parameter	Animal number	Male					Female				
		2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	0	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	1	2	3	4	5	
Posture a)		N	N	N	N	N	N	N	N	N	N
Convulsion b)		0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-7

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : home cage observation (Week 2 of dosing)  
 Dose (mg/kg) : 300

Parameter	Animal number	Male					Female				
		3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	1	2	3	4	5	
Posture a)		N	N	N	N	N	N	N	N	N	N
Convulsion b)		0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe



Appendix 2-8

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : home cage observation (Week 2 of dosing)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male										Female									
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Posture a)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Convulsion b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-9

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : home cage observation (Week 3 of dosing)

Dose (mg/kg) : 0

Parameter	Animal number	Male										Female									
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Posture a)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Convulsion b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-10

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : home cage observation (Week 3 of dosing)  
 Dose (mg/kg) : 100

Parameter	Animal number	Male					Female				
		1	2	3	4	5	1	2	3	4	5
		2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	1	2	3	4	5
Posture a)		N	N	N	N	N	N	N	N	N	N
Convulsion b)		0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-11

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : home cage observation (Week 3 of dosing)  
 Dose (mg/kg) : 300

Parameter	Animal number	Male					Female				
		3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	1	2	3	4	5	
Posture a)		N	N	N	N	N	N	N	N	N	N
Convulsion b)		0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-12

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : home cage observation (Week 3 of dosing)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male										Female									
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Posture a)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Convulsion b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Parameter	Animal number	Male										Female									
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Posture a)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Convulsion b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-14

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : home cage observation (Week 4 of dosing)  
 Dose (mg/kg) : 100

Parameter	Animal number	Male					Female				
		1	2	3	4	5	1	2	3	4	5
		2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	1	2	3	4	5
Posture a)		N	N	N	N	N	N	N	N	N	N
Convulsion b)		0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-15

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : home cage observation (Week 4 of dosing)  
 Dose (mg/kg) : 300

Parameter	Animal number	Male					Female				
		3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	1	2	3	4	5	
Posture a)		N	N	N	N	N	N	N	N	N	N
Convulsion b)		0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe



Appendix 2-16

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : home cage observation (Week 4 of dosing)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male										Female									
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Posture a)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Convulsion b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-17

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : home cage observation (Week 1 of recovery)

Dose (mg/kg) : 0

Parameter	Animal number	Male					Female				
		1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	1	1	1	1	1
	0	0	0	0	1	0	0	0	0	0	1
	6	7	8	9	0	6	7	8	9	0	
Posture a)		N	N	N	N	N	N	N	N	N	N
Convulsion b)		0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-18

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : home cage observation (Week 1 of recovery)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male					Female				
		4	4	4	4	4	4	4	4	4	4
	0	0	0	0	0	1	1	1	1	1	
	0	0	0	0	1	0	0	0	0	1	
	6	7	8	9	0	6	7	8	9	0	
Posture a)		N	N	N	N	N	N	N	N	N	
Convulsion b)		0	0	0	0	0	0	0	0	0	
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-19

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : home cage observation (Week 2 of recovery)

Dose (mg/kg) : 0

Parameter	Animal number	Male					Female				
		1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	1	1	1	1	1	
	0	0	0	0	1	0	0	0	0	1	
	6	7	8	9	0	6	7	8	9	0	
Posture a)		N	N	N	N	N	N	N	N	N	
Convulsion b)		0	0	0	0	0	0	0	0	0	
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-20

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : home cage observation (Week 2 of recovery)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male					Female				
		4	4	4	4	4	4	4	4	4	4
	0	0	0	0	0	1	1	1	1	1	
	0	0	0	0	1	0	0	0	0	1	
	6	7	8	9	0	6	7	8	9	0	
Posture a)		N	N	N	N	N	N	N	N	N	
Convulsion b)		0	0	0	0	0	0	0	0	0	
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	

a) N: Normal, F: Flattened, H: Hunched

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

Appendix 2-21

## 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : in-the-hand observation (Week 1 of dosing)

Dose (mg/kg) : 0

Parameter	Animal number	Male										Female									
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult

b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked

c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

d) 0: Absent, 1: Present

e) 0: Absent, 1: Present

f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed

g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

h) 0: Absent, 1: Present

i) 0: Absent, 1: Present

j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis

k) 0: None, 1: Slight, 2: Moderate, 3: Marked

l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked

m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive

n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-22

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : in-the-hand observation (Week 1 of dosing)  
 Dose (mg/kg) : 100

Parameter	Animal number	Male					Female				
		2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	1	2	3	4	5
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0

- a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult  
 b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked  
 c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked  
 d) 0: Absent, 1: Present  
 e) 0: Absent, 1: Present  
 f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed  
 g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked  
 h) 0: Absent, 1: Present  
 i) 0: Absent, 1: Present  
 j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis  
 k) 0: None, 1: Slight, 2: Moderate, 3: Marked  
 l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked  
 m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive  
 n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-23

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : in-the-hand observation (Week 1 of dosing)  
 Dose (mg/kg) : 300

Parameter	Animal number	Male					Female				
		-----					-----				
		3	3	3	3	3	3	3	3	3	3
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	1	2	3	4	5
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0

- a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult  
 b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked  
 c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked  
 d) 0: Absent, 1: Present  
 e) 0: Absent, 1: Present  
 f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed  
 g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked  
 h) 0: Absent, 1: Present  
 i) 0: Absent, 1: Present  
 j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis  
 k) 0: None, 1: Slight, 2: Moderate, 3: Marked  
 l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked  
 m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive  
 n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult



Appendix 2-24

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : in-the-hand observation (Week 1 of dosing)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male										Female									
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

- a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult  
 b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked  
 c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked  
 d) 0: Absent, 1: Present  
 e) 0: Absent, 1: Present  
 f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed  
 g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked  
 h) 0: Absent, 1: Present  
 i) 0: Absent, 1: Present  
 j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis  
 k) 0: None, 1: Slight, 2: Moderate, 3: Marked  
 l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked  
 m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive  
 n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-25

## 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : in-the-hand observation (Week 2 of dosing)

Dose (mg/kg) : 0

Parameter	Animal number	Male										Female									
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult

b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked

c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

d) 0: Absent, 1: Present

e) 0: Absent, 1: Present

f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed

g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

h) 0: Absent, 1: Present

i) 0: Absent, 1: Present

j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis

k) 0: None, 1: Slight, 2: Moderate, 3: Marked

l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked

m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive

n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-26

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : in-the-hand observation (Week 2 of dosing)  
 Dose (mg/kg) : 100

Parameter	Animal number	Male					Female				
		2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	1	2	3	4	5
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0

- a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult  
 b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked  
 c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked  
 d) 0: Absent, 1: Present  
 e) 0: Absent, 1: Present  
 f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed  
 g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked  
 h) 0: Absent, 1: Present  
 i) 0: Absent, 1: Present  
 j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis  
 k) 0: None, 1: Slight, 2: Moderate, 3: Marked  
 l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked  
 m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive  
 n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-27

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : in-the-hand observation (Week 2 of dosing)

Dose (mg/kg) : 300

Parameter	Animal number	Male					Female				
		3	3	3	3	3	3	3	3	3	3
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	1	2	3	4	5
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0

a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult

b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked

c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

d) 0: Absent, 1: Present

e) 0: Absent, 1: Present

f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed

g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

h) 0: Absent, 1: Present

i) 0: Absent, 1: Present

j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis

k) 0: None, 1: Slight, 2: Moderate, 3: Marked

l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked

m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive

n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-28

## 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : in-the-hand observation (Week 2 of dosing)

Dose (mg/kg) : 1000

Parameter	Animal number	Male										Female									
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult

b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked

c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

d) 0: Absent, 1: Present

e) 0: Absent, 1: Present

f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed

g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

h) 0: Absent, 1: Present

i) 0: Absent, 1: Present

j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis

k) 0: None, 1: Slight, 2: Moderate, 3: Marked

l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked

m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive

n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-29

## 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : in-the-hand observation (Week 3 of dosing)

Dose (mg/kg) : 0

Parameter	Animal number	Male										Female									
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult

b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked

c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

d) 0: Absent, 1: Present

e) 0: Absent, 1: Present

f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed

g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

h) 0: Absent, 1: Present

i) 0: Absent, 1: Present

j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis

k) 0: None, 1: Slight, 2: Moderate, 3: Marked

l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked

m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive

n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-30

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : in-the-hand observation (Week 3 of dosing)  
 Dose (mg/kg) : 100

Parameter	Animal number	Male					Female				
		2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	1	2	3	4	5
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0

- a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult  
 b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked  
 c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked  
 d) 0: Absent, 1: Present  
 e) 0: Absent, 1: Present  
 f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed  
 g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked  
 h) 0: Absent, 1: Present  
 i) 0: Absent, 1: Present  
 j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis  
 k) 0: None, 1: Slight, 2: Moderate, 3: Marked  
 l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked  
 m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive  
 n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-31

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : in-the-hand observation (Week 3 of dosing)

Dose (mg/kg) : 300

Parameter	Animal number	Male					Female				
		-----					-----				
		3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	
		1	2	3	4	5	1	2	3	4	5
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0

a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult

b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked

c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

d) 0: Absent, 1: Present

e) 0: Absent, 1: Present

f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed

g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

h) 0: Absent, 1: Present

i) 0: Absent, 1: Present

j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis

k) 0: None, 1: Slight, 2: Moderate, 3: Marked

l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked

m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive

n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult



Appendix 2-32

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : in-the-hand observation (Week 3 of dosing)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male										Female									
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

- a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult  
 b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked  
 c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked  
 d) 0: Absent, 1: Present  
 e) 0: Absent, 1: Present  
 f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed  
 g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked  
 h) 0: Absent, 1: Present  
 i) 0: Absent, 1: Present  
 j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis  
 k) 0: None, 1: Slight, 2: Moderate, 3: Marked  
 l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked  
 m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive  
 n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-33

## 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : in-the-hand observation (Week 4 of dosing)

Dose (mg/kg) : 0

Parameter	Animal number	Male										Female									
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult

b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked

c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

d) 0: Absent, 1: Present

e) 0: Absent, 1: Present

f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed

g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

h) 0: Absent, 1: Present

i) 0: Absent, 1: Present

j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis

k) 0: None, 1: Slight, 2: Moderate, 3: Marked

l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked

m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive

n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-34

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : in-the-hand observation (Week 4 of dosing)

Dose (mg/kg) : 100

Parameter	Animal number	Male					Female				
		2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	1	2	3	4	5
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0

a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult

b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked

c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

d) 0: Absent, 1: Present

e) 0: Absent, 1: Present

f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed

g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

h) 0: Absent, 1: Present

i) 0: Absent, 1: Present

j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis

k) 0: None, 1: Slight, 2: Moderate, 3: Marked

l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked

m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive

n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-35

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : in-the-hand observation (Week 4 of dosing)

Dose (mg/kg) : 300

Parameter	Animal number	Male					Female				
		3	3	3	3	3	3	3	3	3	3
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	1	2	3	4	5
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0

a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult

b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked

c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

d) 0: Absent, 1: Present

e) 0: Absent, 1: Present

f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed

g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

h) 0: Absent, 1: Present

i) 0: Absent, 1: Present

j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis

k) 0: None, 1: Slight, 2: Moderate, 3: Marked

l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked

m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive

n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-36

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : in-the-hand observation (Week 4 of dosing)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male										Female									
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

- a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult  
 b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked  
 c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked  
 d) 0: Absent, 1: Present  
 e) 0: Absent, 1: Present  
 f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed  
 g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked  
 h) 0: Absent, 1: Present  
 i) 0: Absent, 1: Present  
 j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis  
 k) 0: None, 1: Slight, 2: Moderate, 3: Marked  
 l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked  
 m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive  
 n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-37

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : in-the-hand observation (Week 1 of recovery)

Dose (mg/kg) : 0

Parameter	Animal number	Male					Female				
		1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	1	0	0	0	0	1
		6	7	8	9	0	6	7	8	9	0
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0

a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult

b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked

c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

d) 0: Absent, 1: Present

e) 0: Absent, 1: Present

f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed

g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

h) 0: Absent, 1: Present

i) 0: Absent, 1: Present

j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis

k) 0: None, 1: Slight, 2: Moderate, 3: Marked

l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked

m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive

n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-38

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : in-the-hand observation (Week 1 of recovery)

Dose (mg/kg) : 1000

Parameter	Animal number	Male					Female				
		4	4	4	4	4	4	4	4	4	4
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	1	0	0	0	0	1
		6	7	8	9	0	6	7	8	9	0
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0

a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult

b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked

c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

d) 0: Absent, 1: Present

e) 0: Absent, 1: Present

f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed

g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

h) 0: Absent, 1: Present

i) 0: Absent, 1: Present

j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis

k) 0: None, 1: Slight, 2: Moderate, 3: Marked

l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked

m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive

n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-39

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : in-the-hand observation (Week 2 of recovery)

Dose (mg/kg) : 0

Parameter	Animal number	Male					Female				
		1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	1	0	0	0	0	1
		6	7	8	9	0	6	7	8	9	0
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0

a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult

b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked

c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

d) 0: Absent, 1: Present

e) 0: Absent, 1: Present

f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed

g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked

h) 0: Absent, 1: Present

i) 0: Absent, 1: Present

j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis

k) 0: None, 1: Slight, 2: Moderate, 3: Marked

l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked

m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive

n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult



Appendix 2-40

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : in-the-hand observation (Week 2 of recovery)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male					Female				
		4	4	4	4	4	4	4	4	4	4
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	1	0	0	0	0	1
		6	7	8	9	0	6	7	8	9	0
Ease of removal from cage a)		0	0	0	0	0	0	0	0	0	0
Fur condition b)		0	0	0	0	0	0	0	0	0	0
Skin c)		0	0	0	0	0	0	0	0	0	0
Secretions-Eye, Nose d)		0	0	0	0	0	0	0	0	0	0
Exophthalmos e)		0	0	0	0	0	0	0	0	0	0
Palpebral closure f)		0	0	0	0	0	0	0	0	0	0
Mucosal membranes g)		0	0	0	0	0	0	0	0	0	0
Lacrimation h)		0	0	0	0	0	0	0	0	0	0
Piloerection i)		0	0	0	0	0	0	0	0	0	0
Pupil size j)		0	0	0	0	0	0	0	0	0	0
Salivation k)		0	0	0	0	0	0	0	0	0	0
Abnormal respiration l)		0	0	0	0	0	0	0	0	0	0
Vocalization m)		0	0	0	0	0	0	0	0	0	0
Reactivity to handling n)		0	0	0	0	0	0	0	0	0	0

- a) -1: Atypically docile, 0: Easy, 1: Some resistance/avoidance, 2: Difficult, 3: Very difficult  
 b) 0: Normal, 1: Slight, unkempt fur, 2: Moderate, 3: Marked  
 c) 0: Normal, 1: Slight, 2: Moderate, 3: Marked  
 d) 0: Absent, 1: Present  
 e) 0: Absent, 1: Present  
 f) 0: Normal, 1: Slightly closed, 2: Half closed, 3: Completely closed  
 g) 0: Normal, 1: Slight, 2: Moderate, 3: Marked  
 h) 0: Absent, 1: Present  
 i) 0: Absent, 1: Present  
 j) -1: Miosis, 0: Normal, 1: Half opened pupil, 2: Mydriasis  
 k) 0: None, 1: Slight, 2: Moderate, 3: Marked  
 l) 0: Absent, 1: Slight, 2: Moderate, 3: Marked  
 m) 0: None, 1: Soft, 2: Moderate, 3: Loud/aggressive  
 n) -1: Atypically docile, 0: Easy, 1: Slightly awkward, 2: Difficult, 3: Very difficult

Appendix 2-41

## 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : open field observation (Week 1 of dosing)

Dose (mg/kg) : 0

Parameter	Animal number	Male										Female									
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Arousal a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Convulsion b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stereotypy d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gait e)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Posture f)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Grooming g)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rearing count		7	4	0	6	6	10	6	3	5	1	3	4	5	6	3	5	10	7	8	2
Defecation count		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Urination h)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

d) 0: None, 1: Minor, 2: Moderate, 3: Severe

e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly

f) N: Normal, F: Flattened, H: Hunched

g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)

h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-42

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : open field observation (Week 1 of dosing)  
 Dose (mg/kg) : 100

Parameter	Animal number	Male					Female				
		2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	1	2	3	4	5
Arousal a)		0	0	0	0	0	0	0	0	0	0
Convulsion b)		0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0
Stereotypy d)		0	0	0	0	0	0	0	0	0	0
Gait e)		0	0	0	0	0	0	0	0	0	0
Posture f)		N	N	N	N	N	N	N	N	N	N
Grooming g)		0	0	0	0	0	0	0	0	0	0
Rearing count		5	3	8	6	1	3	6	5	7	7
Defecation count		0	0	1	0	0	0	0	0	0	0
Urination h)		0	0	0	0	0	0	0	0	0	0

- a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert  
 b) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 c) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 d) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly  
 f) N: Normal, F: Flattened, H: Hunched  
 g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)  
 h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-43

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : open field observation (Week 1 of dosing)  
 Dose (mg/kg) : 300

Parameter	Animal number	Male					Female				
		3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	1	2	3	4	5	
Arousal a)	0	0	0	0	0	0	0	0	0	0	
Convulsion b)	0	0	0	0	0	0	0	0	0	0	
Abnormal behavior c)	0	0	0	0	0	0	0	0	0	0	
Stereotypy d)	0	0	0	0	0	0	0	0	0	0	
Gait e)	0	0	0	0	0	0	0	0	0	0	
Posture f)	N	N	N	N	N	N	N	N	N	N	
Grooming g)	0	0	0	0	0	0	0	0	0	0	
Rearing count	2	5	4	5	3	2	4	7	3	7	
Defecation count	0	2	0	0	1	0	0	0	0	0	
Urination h)	0	0	0	0	0	0	0	0	0	0	

- a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert  
 b) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 c) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 d) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly  
 f) N: Normal, F: Flattened, H: Hunched  
 g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)  
 h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-44

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : open field observation (Week 1 of dosing)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male										Female									
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	
Arousal a)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Convulsion b)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Abnormal behavior c)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Stereotypy d)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Gait e)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Posture f)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
Grooming g)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rearing count	4	4	4	8	4	2	8	5	7	2	3	6	11	6	7	6	6	7	8	5	
Defecation count	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	
Urination h)	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	

- a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert  
 b) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 c) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 d) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly  
 f) N: Normal, F: Flattened, H: Hunched  
 g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)  
 h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-45

## 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : open field observation (Week 2 of dosing)

Dose (mg/kg) : 0

Parameter	Animal number	Male										Female									
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Arousal a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Convulsion b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stereotypy d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gait e)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Posture f)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Grooming g)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rearing count		6	5	0	6	1	3	6	1	0	2	6	6	7	10	8	6	6	5	8	7
Defecation count		0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Urination h)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

d) 0: None, 1: Minor, 2: Moderate, 3: Severe

e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly

f) N: Normal, F: Flattened, H: Hunched

g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)

h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-46

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : open field observation (Week 2 of dosing)  
 Dose (mg/kg) : 100

Parameter	Animal number	Male					Female				
		2	2	2	2	2	2	2	2	2	2
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	1	2	3	4	5
Arousal a)		0	0	0	0	0	0	0	0	0	0
Convulsion b)		0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0
Stereotypy d)		0	0	0	0	0	0	0	0	0	0
Gait e)		0	0	0	0	0	0	0	0	0	0
Posture f)		N	N	N	N	N	N	N	N	N	N
Grooming g)		0	0	0	0	0	0	0	0	0	0
Rearing count		0	6	1	4	3	3	7	5	6	5
Defecation count		0	0	1	0	0	0	0	0	0	0
Urination h)		0	0	0	1	0	0	0	0	0	0

- a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert  
 b) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 c) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 d) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly  
 f) N: Normal, F: Flattened, H: Hunched  
 g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)  
 h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-47

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : open field observation (Week 2 of dosing)  
 Dose (mg/kg) : 300

Parameter	Animal number	Male					Female				
		3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	
	1	2	3	4	5	1	2	3	4	5	
Arousal a)	0	0	0	0	0	0	0	0	0	0	
Convulsion b)	0	0	0	0	0	0	0	0	0	0	
Abnormal behavior c)	0	0	0	0	0	0	0	0	0	0	
Stereotypy d)	0	0	0	0	0	0	0	0	0	0	
Gait e)	0	0	0	0	0	0	0	0	0	0	
Posture f)	N	N	N	N	N	N	N	N	N	N	
Grooming g)	0	0	0	0	0	0	0	0	0	0	
Rearing count	0	2	4	6	2	5	7	4	5	7	
Defecation count	0	0	0	0	0	0	0	0	0	0	
Urination h)	0	0	0	0	0	0	0	0	0	0	

- a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert  
 b) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 c) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 d) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly  
 f) N: Normal, F: Flattened, H: Hunched  
 g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)  
 h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount



Appendix 2-48

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : open field observation (Week 2 of dosing)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male										Female									
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Arousal a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Convulsion b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stereotypy d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gait e)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Posture f)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Grooming g)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rearing count		8	4	5	8	5	2	3	8	4	2	5	5	10	7	8	5	7	7	9	4
Defecation count		0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
Urination h)		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

- a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert  
 b) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 c) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 d) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly  
 f) N: Normal, F: Flattened, H: Hunched  
 g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)  
 h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-49

## 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : open field observation (Week 3 of dosing)

Dose (mg/kg) : 0

Parameter	Animal number	Male										Female									
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Arousal a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Convulsion b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stereotypy d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gait e)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Posture f)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Grooming g)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rearing count		4	6	1	7	1	1	1	4	2	2	5	4	3	9	8	7	5	5	7	5
Defecation count		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urination h)		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

d) 0: None, 1: Minor, 2: Moderate, 3: Severe

e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly

f) N: Normal, F: Flattened, H: Hunched

g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)

h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-50

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : open field observation (Week 3 of dosing)  
 Dose (mg/kg) : 100

Parameter	Animal number	Male					Female				
		2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	0	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	1	2	3	4	5	
Arousal a)	0	0	0	0	0	0	0	0	0	0	
Convulsion b)	0	0	0	0	0	0	0	0	0	0	
Abnormal behavior c)	0	0	0	0	0	0	0	0	0	0	
Stereotypy d)	0	0	0	0	0	0	0	0	0	0	
Gait e)	0	0	0	0	0	0	0	0	0	0	
Posture f)	N	N	N	N	N	N	N	N	N	N	
Grooming g)	0	0	0	0	0	0	0	0	0	0	
Rearing count	5	6	4	2	1	5	6	7	6	4	
Defecation count	0	0	0	0	0	0	0	0	0	0	
Urination h)	0	0	0	0	0	0	0	0	0	0	

- a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert  
 b) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 c) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 d) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly  
 f) N: Normal, F: Flattened, H: Hunched  
 g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)  
 h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-51

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : open field observation (Week 3 of dosing)  
 Dose (mg/kg) : 300

Parameter	Animal number	Male					Female				
		3	3	3	3	3	3	3	3	3	3
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	1	2	3	4	5
Arousal a)		0	0	0	0	0	0	0	0	0	0
Convulsion b)		0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0
Stereotypy d)		0	0	0	0	0	0	0	0	0	0
Gait e)		0	0	0	0	0	0	0	0	0	0
Posture f)		N	N	N	N	N	N	N	N	N	N
Grooming g)		0	0	0	0	0	0	0	0	0	0
Rearing count		0	5	5	3	5	6	5	5	7	8
Defecation count		0	0	0	0	0	0	0	0	0	0
Urination h)		0	0	0	0	0	0	0	0	0	0

- a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert  
 b) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 c) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 d) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly  
 f) N: Normal, F: Flattened, H: Hunched  
 g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)  
 h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-52

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : open field observation (Week 3 of dosing)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male										Female									
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Arousal a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Convulsion b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stereotypy d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gait e)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Posture f)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Grooming g)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rearing count		7	2	2	6	3	3	5	0	1	4	7	4	7	3	8	2	6	5	8	1
Defecation count		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urination h)		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

- a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert  
 b) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 c) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 d) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly  
 f) N: Normal, F: Flattened, H: Hunched  
 g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)  
 h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-53

## 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : open field observation (Week 4 of dosing)

Dose (mg/kg) : 0

Parameter	Animal number	Male										Female									
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Arousal a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Convulsion b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stereotypy d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gait e)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Posture f)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Grooming g)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rearing count		5	5	1	6	3	5	6	5	2	3	5	5	9	8	6	8	5	5	3	6
Defecation count		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Urination h)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

d) 0: None, 1: Minor, 2: Moderate, 3: Severe

e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly

f) N: Normal, F: Flattened, H: Hunched

g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)

h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-54

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : open field observation (Week 4 of dosing)  
 Dose (mg/kg) : 100

Parameter	Animal number	Male					Female				
		2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	0	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0
	1	2	3	4	5	1	2	3	4	5	
Arousal a)	0	0	0	0	0	0	0	0	0	0	
Convulsion b)	0	0	0	0	0	0	0	0	0	0	
Abnormal behavior c)	0	0	0	0	0	0	0	0	0	0	
Stereotypy d)	0	0	0	0	0	0	0	0	0	0	
Gait e)	0	0	0	0	0	0	0	0	0	0	
Posture f)	N	N	N	N	N	N	N	N	N	N	
Grooming g)	0	0	0	0	0	0	0	0	0	0	
Rearing count	4	4	3	0	5	6	7	7	5	6	
Defecation count	0	0	0	0	0	0	0	0	0	0	
Urination h)	0	0	0	0	0	0	0	0	0	0	

- a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert  
 b) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 c) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 d) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly  
 f) N: Normal, F: Flattened, H: Hunched  
 g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)  
 h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-55

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : open field observation (Week 4 of dosing)  
 Dose (mg/kg) : 300

Parameter	Animal number	Male					Female				
		3	3	3	3	3	3	3	3	3	3
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	1	2	3	4	5
Arousal a)		0	0	0	0	0	0	0	0	0	0
Convulsion b)		0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0
Stereotypy d)		0	0	0	0	0	0	0	0	0	0
Gait e)		0	0	0	0	0	0	0	0	0	0
Posture f)		N	N	N	N	N	N	N	N	N	N
Grooming g)		0	0	0	0	0	0	0	0	0	0
Rearing count		3	2	8	4	4	7	5	6	4	7
Defecation count		0	0	0	0	0	0	0	0	0	0
Urination h)		0	0	0	0	0	0	0	0	0	0

- a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert  
 b) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 c) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 d) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly  
 f) N: Normal, F: Flattened, H: Hunched  
 g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)  
 h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount



Appendix 2-56

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : open field observation (Week 4 of dosing)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male										Female									
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Arousal a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Convulsion b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stereotypy d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gait e)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Posture f)		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Grooming g)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rearing count		8	4	8	8	7	5	6	7	0	8	4	2	7	7	7	3	3	7	7	6
Defecation count		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Urination h)		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

- a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert  
 b) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 c) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 d) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly  
 f) N: Normal, F: Flattened, H: Hunched  
 g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)  
 h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-57

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : open field observation (Week 1 of recovery)

Dose (mg/kg) : 0

Parameter	Animal number	Male					Female				
		1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	1	1	1	1	1	1
	0	0	0	0	1	0	0	0	0	0	1
	6	7	8	9	0	6	7	8	9	0	
Arousal a)		0	0	0	0	0	0	0	0	0	0
Convulsion b)		0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0
Stereotypy d)		0	0	0	0	0	0	0	0	0	0
Gait e)		0	0	0	0	0	0	0	0	0	0
Posture f)		N	N	N	N	N	N	N	N	N	N
Grooming g)		0	0	0	0	0	0	0	0	0	0
Rearing count		1	3	4	2	0	6	6	6	6	4
Defecation count		0	0	0	0	0	0	0	0	0	0
Urination h)		0	0	0	0	0	0	0	0	0	0

a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

d) 0: None, 1: Minor, 2: Moderate, 3: Severe

e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly

f) N: Normal, F: Flattened, H: Hunched

g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)

h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-58

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : open field observation (Week 1 of recovery)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male					Female				
		4	4	4	4	4	4	4	4	4	4
	0	0	0	0	0	1	1	1	1	1	1
	0	0	0	0	1	0	0	0	0	0	1
	6	7	8	9	0	6	7	8	9	0	
Arousal a)	0	0	0	0	0	0	0	0	0	0	0
Convulsion b)	0	0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)	0	0	0	0	0	0	0	0	0	0	0
Stereotypy d)	0	0	0	0	0	0	0	0	0	0	0
Gait e)	0	0	0	0	0	0	0	0	0	0	0
Posture f)	N	N	N	N	N	N	N	N	N	N	N
Grooming g)	0	0	0	0	0	0	0	0	0	0	0
Rearing count	3	5	5	1	2	1	9	6	8	3	
Defecation count	0	0	0	0	0	0	0	0	0	0	0
Urination h)	0	0	0	1	0	0	0	0	0	0	0

- a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert  
 b) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 c) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 d) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly  
 f) N: Normal, F: Flattened, H: Hunched  
 g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)  
 h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-59

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days

Individual detailed clinical signs : open field observation (Week 2 of recovery)

Dose (mg/kg) : 0

Parameter	Animal number	Male					Female				
		1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	1	1	1	1	1
	0	0	0	0	1	0	0	0	0	0	1
	6	7	8	9	0	6	7	8	9	0	
Arousal a)		0	0	0	0	0	0	0	0	0	0
Convulsion b)		0	0	0	0	0	0	0	0	0	0
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	0
Stereotypy d)		0	0	0	0	0	0	0	0	0	0
Gait e)		0	0	0	0	0	0	0	0	0	0
Posture f)		N	N	N	N	N	N	N	N	N	N
Grooming g)		0	0	0	0	0	0	0	0	0	0
Rearing count		3	5	1	5	1	4	7	3	8	3
Defecation count		0	0	0	0	0	0	0	0	0	0
Urination h)		0	0	0	0	0	0	0	0	0	0

a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert

b) 0: None, 1: Minor, 2: Moderate, 3: Severe

c) 0: None, 1: Minor, 2: Moderate, 3: Severe

d) 0: None, 1: Minor, 2: Moderate, 3: Severe

e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly

f) N: Normal, F: Flattened, H: Hunched

g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)

h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-60

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual detailed clinical signs : open field observation (Week 2 of recovery)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male					Female				
		4	4	4	4	4	4	4	4	4	4
	0	0	0	0	0	1	1	1	1	1	
	0	0	0	0	1	0	0	0	0	1	
	6	7	8	9	0	6	7	8	9	0	
Arousal a)		0	0	0	0	0	0	0	0	0	
Convulsion b)		0	0	0	0	0	0	0	0	0	
Abnormal behavior c)		0	0	0	0	0	0	0	0	0	
Stereotypy d)		0	0	0	0	0	0	0	0	0	
Gait e)		0	0	0	0	0	0	0	0	0	
Posture f)		N	N	N	N	N	N	N	N	N	
Grooming g)		0	0	0	0	0	0	0	0	0	
Rearing count		3	3	5	2	2	2	9	7	6	
Defecation count		0	0	0	0	0	0	0	0	0	
Urination h)		0	0	0	0	0	0	0	0	0	

- a) -2: Unconscious/semi-conscious, -1: Reduced awareness, 0: Normal, 1: Increased alertness, 2: Markedly alert  
 b) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 c) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 d) 0: None, 1: Minor, 2: Moderate, 3: Severe  
 e) U: No/minimal location, 0: Normal, 1: Slight, 2: Moderate, 3: Markedly  
 f) N: Normal, F: Flattened, H: Hunched  
 g) 0: None, 1: Occasional bouts (up to four), 2: Numerous bouts (more than four)  
 h) 0: None, 1: Small amount, 2: Moderate amount, 3: Large/excessive amount

Appendix 2-61

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual manipulative test (Week 4 of dosing)  
 Dose (mg/kg) : 0

Parameter	Animal number	Male										Female									
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Auditory response a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach response b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Touch response c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tail pinch response d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pupillary reflex e)		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Aerial righting reflex (Total score)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Landing foot splay (mm)		74	88	58	71	76	53	56	50	63	61	55	47	33	49	47	59	37	63	59	80

- a) -2: None, -1: Weak, 0: Normal, 1: Exaggerate  
 b) -1: No reaction/ignores, 0: Normal, 1: Abnormality fearful/aggressive reaction  
 c) -1: No reaction/ignores, 0: Normal, 1: Abnormality fearful/aggressive reaction  
 d) -2: None, -1: Weak, 0: Normal, 1: Exaggerate  
 e) P: Pass, both, F: Failed, neither, L: Left pupil responds, R: Right pupil responds

Appendix 2-62

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual manipulative test (Week 4 of dosing)  
 Dose (mg/kg) : 100

Parameter	Animal number	Male					Female				
		2	2	2	2	2	2	2	2	2	2
	0	0	0	0	0	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	
	1	2	3	4	5	1	2	3	4	5	
Auditory response a)	0	0	0	0	0	0	0	0	0	0	
Approach response b)	0	0	0	0	0	0	0	0	0	0	
Touch response c)	0	0	0	0	0	0	0	0	0	0	
Tail pinch response d)	0	0	0	0	0	0	0	0	0	0	
Pupillary reflex e)	P	P	P	P	P	P	P	P	P	P	
Aerial righting reflex (Total score)	0	0	0	0	0	0	0	0	0	0	
Landing foot splay (mm)	41	71	73	106	67	64	69	35	48	49	

- a) -2: None, -1: Weak, 0: Normal, 1: Exaggerate  
 b) -1: No reaction/ignores, 0: Normal, 1: Abnormality fearful/aggressive reaction  
 c) -1: No reaction/ignores, 0: Normal, 1: Abnormality fearful/aggressive reaction  
 d) -2: None, -1: Weak, 0: Normal, 1: Exaggerate  
 e) P: Pass, both, F: Failed, neither, L: Left pupil responds, R: Right pupil responds

Appendix 2-63

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual manipulative test (Week 4 of dosing)  
 Dose (mg/kg) : 300

Parameter	Animal number	Male					Female				
		3	3	3	3	3	3	3	3	3	3
		0	0	0	0	0	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0
		1	2	3	4	5	1	2	3	4	5
Auditory response a)		0	0	0	0	0	0	0	0	0	0
Approach response b)		0	0	0	0	0	0	0	0	0	0
Touch response c)		0	0	0	0	0	0	0	0	0	0
Tail pinch response d)		0	0	0	0	0	0	0	0	0	0
Pupillary reflex e)		P	P	P	P	P	P	P	P	P	P
Aerial righting reflex (Total score)		0	0	0	0	0	0	0	0	0	0
Landing foot splay (mm)		100	89	53	68	47	55	57	86	23	31

- a) -2: None, -1: Weak, 0: Normal, 1: Exaggerate  
 b) -1: No reaction/ignores, 0: Normal, 1: Abnormality fearful/aggressive reaction  
 c) -1: No reaction/ignores, 0: Normal, 1: Abnormality fearful/aggressive reaction  
 d) -2: None, -1: Weak, 0: Normal, 1: Exaggerate  
 e) P: Pass, both, F: Failed, neither, L: Left pupil responds, R: Right pupil responds



Appendix 2-64

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual manipulative test (Week 4 of dosing)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male										Female									
		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Auditory response a)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach response b)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Touch response c)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tail pinch response d)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pupillary reflex e)		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Aerial righting reflex (Total score)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Landing foot splay (mm)		68	33	61	53	68	92	94	106	52	91	48	53	97	52	96	37	41	84	54	60

- a) -2: None, -1: Weak, 0: Normal, 1: Exaggerate  
 b) -1: No reaction/ignores, 0: Normal, 1: Abnormality fearful/aggressive reaction  
 c) -1: No reaction/ignores, 0: Normal, 1: Abnormality fearful/aggressive reaction  
 d) -2: None, -1: Weak, 0: Normal, 1: Exaggerate  
 e) P: Pass, both, F: Failed, neither, L: Left pupil responds, R: Right pupil responds

Appendix 2-65

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual manipulative test (Week 2 of recovery)  
 Dose (mg/kg) : 0

Parameter	Animal number	Male					Female				
		1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	1	1	1	1	1	
	0	0	0	0	1	0	0	0	0	1	
	6	7	8	9	0	6	7	8	9	0	
Auditory response a)		0	0	0	0	0	0	0	0	0	
Approach response b)		0	0	0	0	0	0	0	0	0	
Touch response c)		0	0	0	0	0	0	0	0	0	
Tail pinch response d)		0	0	0	0	0	0	0	0	0	
Pupillary reflex e)		P	P	P	P	P	P	P	P	P	
Aerial righting reflex (Total score)		0	0	0	0	0	0	0	0	0	
Landing foot splay (mm)		60	83	59	62	93	75	49	76	68	77

- a) -2: None, -1: Weak, 0: Normal, 1: Exaggerate  
 b) -1: No reaction/ignores, 0: Normal, 1: Abnormality fearful/aggressive reaction  
 c) -1: No reaction/ignores, 0: Normal, 1: Abnormality fearful/aggressive reaction  
 d) -2: None, -1: Weak, 0: Normal, 1: Exaggerate  
 e) P: Pass, both, F: Failed, neither, L: Left pupil responds, R: Right pupil responds

Appendix 2-66

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual manipulative test (Week 2 of recovery)  
 Dose (mg/kg) : 1000

Parameter	Animal number	Male					Female				
		4	4	4	4	4	4	4	4	4	4
	0	0	0	0	0	1	1	1	1	1	
	0	0	0	0	1	0	0	0	0	1	
	6	7	8	9	0	6	7	8	9	0	
Auditory response a)		0	0	0	0	0	0	0	0	0	
Approach response b)		0	0	0	0	0	0	0	0	0	
Touch response c)		0	0	0	0	0	0	0	0	0	
Tail pinch response d)		0	0	0	0	0	0	0	0	0	
Pupillary reflex e)		P	P	P	P	P	P	P	P	P	
Aerial righting reflex (Total score)		0	0	0	0	0	0	0	0	0	
Landing foot splay (mm)		80	90	54	50	88	40	37	70	76	38

- a) -2: None, -1: Weak, 0: Normal, 1: Exaggerate  
 b) -1: No reaction/ignores, 0: Normal, 1: Abnormality fearful/aggressive reaction  
 c) -1: No reaction/ignores, 0: Normal, 1: Abnormality fearful/aggressive reaction  
 d) -2: None, -1: Weak, 0: Normal, 1: Exaggerate  
 e) P: Pass, both, F: Failed, neither, L: Left pupil responds, R: Right pupil responds

Appendix 2-67

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual grip strength (Week 4 of dosing)  
 Dose (mg/kg) : 0

Sex	Animal number	Fore limb g	Hind limb g
Male	1001	1410	535
	1002	1196	562
	1003	786	611
	1004	1299	510
	1005	1175	668
	1006	1402	701
	1007	1068	387
	1008	1335	505
	1009	1333	570
	1010	1012	490
	Mean	1202	554
	S.D.	199	91
Female	1101	1149	493
	1102	1129	530
	1103	952	475
	1104	1094	404
	1105	1157	655
	1106	1041	514
	1107	883	359
	1108	1034	409
	1109	1086	611
	1110	1145	528
	Mean	1067	498
	S.D.	91	92

Sex	Animal number	Fore limb g	Hind limb g
Male	2001	908	442
	2002	1104	562
	2003	1310	564
	2004	1257	505
	2005	1039	328
	Mean	1124	480
	S.D.	163	99
Female	2101	1264	558
	2102	1015	544
	2103	1081	389
	2104	1153	544
	2105	1079	455
	Mean	1118	498
	S.D.	95	73

Sex	Animal number	Fore limb g	Hind limb g
Male	3001	1094	685
	3002	986	493
	3003	1250	669
	3004	941	417
	3005	1289	534
	Mean	1112	560
	S.D.	155	115
Female	3101	1055	415
	3102	1250	589
	3103	1379	643
	3104	1131	441
	3105	967	387
	Mean	1156	495
	S.D.	162	114

Appendix 2-70

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual grip strength (Week 4 of dosing)  
 Dose (mg/kg) : 1000

Sex	Animal number	Fore limb g	Hind limb g
Male	4001	1064	598
	4002	999	501
	4003	1210	537
	4004	1210	631
	4005	878	464
	4006	1272	711
	4007	1159	655
	4008	1448	551
	4009	1244	654
	4010	1086	424
	Mean	1157	573
	S.D.	159	93
Female	4101	1064	478
	4102	1207	624
	4103	1165	427
	4104	1074	405
	4105	1180	521
	4106	1209	614
	4107	1113	437
	4108	1241	468
	4109	1129	465
	4110	1028	461
	Mean	1141	490
	S.D.	71	75

Appendix 2-71

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual grip strength (Week 2 of recovery)  
 Dose (mg/kg) : 0

Sex	Animal number	Fore limb g	Hind limb g
Male	1006	1334	842
	1007	971	566
	1008	1304	497
	1009	944	641
	1010	1033	718
	Mean	1117	653
	S.D.	187	134
Female	1106	1036	580
	1107	1021	652
	1108	780	649
	1109	1074	588
	1110	795	390
	Mean	941	572
	S.D.	142	107



Appendix 2-72

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual grip strength (Week 2 of recovery)  
 Dose (mg/kg) : 1000

Sex	Animal number	Fore limb g	Hind limb g
Male	4006	1213	715
	4007	1409	546
	4008	1067	528
	4009	1369	673
	4010	1331	606
		Mean	1278
	S.D.	139	80
Female	4106	1285	727
	4107	1124	566
	4108	896	416
	4109	1303	604
	4110	1095	562
		Mean	1141
	S.D.	165	111

Appendix 2-73

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual motor activity (Week 4 of dosing)  
 Dose (mg/kg) : 0

Sex	Animal number	Interval (minutes)						Total (0-60)
		0-10	10-20	20-30	30-40	40-50	50-60	
Male	1001	406	308	215	18	0	7	954
	1002	421	394	443	374	369	342	2343
	1003	357	311	223	257	47	87	1282
	1004	423	387	368	365	142	23	1708
	1005	379	320	234	196	211	164	1504
	1006	335	241	403	261	248	181	1669
	1007	420	307	260	56	154	234	1431
	1008	401	275	357	174	99	14	1320
	1009	357	372	265	63	35	97	1189
	1010	452	419	383	88	8	11	1361
	Mean	395	333	315	185	131	116	1476
	S.D.	37	57	84	128	119	113	376
Female	1101	249	161	310	37	62	242	1061
	1102	180	174	131	54	87	17	643
	1103	42	227	257	25	2	1	554
	1104	208	9	143	74	32	39	505
	1105	263	257	103	196	198	25	1042
	1106	370	299	261	69	23	271	1293
	1107	329	152	26	2	235	158	902
	1108	354	290	195	223	188	151	1401
	1109	229	201	3	8	15	8	464
	1110	214	24	262	182	2	0	684
	Mean	244	179	169	87	84	91	855
	S.D.	96	100	105	82	89	105	335

Unit : Count

Appendix 2-74

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual motor activity (Week 4 of dosing)  
 Dose (mg/kg) : 100

Sex	Animal number	Interval (minutes)						Total (0-60)
		0-10	10-20	20-30	30-40	40-50	50-60	
Male	2001	416	320	344	275	282	221	1858
	2002	463	415	162	28	4	27	1099
	2003	434	381	208	0	0	104	1127
	2004	458	364	300	320	153	17	1612
	2005	395	318	81	8	33	10	845
	Mean	433	360	219	126	94	76	1308
S.D.	29	41	106	158	122	90	414	
Female	2101	264	8	76	336	161	10	855
	2102	54	0	22	6	131	62	275
	2103	259	251	227	6	5	11	759
	2104	269	155	1	3	141	261	830
	2105	104	120	274	1	0	103	602
	Mean	190	107	120	70	88	89	664
S.D.	103	105	123	148	78	103	239	

Unit : Count

Appendix 2-75

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual motor activity (Week 4 of dosing)  
 Dose (mg/kg) : 300

Sex	Animal number	Interval (minutes)						Total (0-60)
		0-10	10-20	20-30	30-40	40-50	50-60	
Male	3001	468	401	412	147	6	17	1451
	3002	459	377	50	2	0	9	897
	3003	410	405	365	344	47	11	1582
	3004	427	362	167	38	26	7	1027
	3005	460	361	253	45	5	10	1134
	Mean	445	381	249	115	17	11	1218
S.D.	25	21	147	139	20	4	289	
Female	3101	313	214	3	0	117	0	647
	3102	298	262	5	2	94	224	885
	3103	66	86	255	35	10	8	460
	3104	321	277	245	235	164	171	1413
	3105	239	233	141	101	7	27	748
	Mean	247	214	130	75	78	86	831
S.D.	106	76	123	99	69	104	361	

Unit : Count

Appendix 2-76

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual motor activity (Week 4 of dosing)  
 Dose (mg/kg) : 1000

Sex	Animal number	Interval (minutes)						Total (0-60)
		0-10	10-20	20-30	30-40	40-50	50-60	
Male	4001	412	283	31	24	0	16	766
	4002	418	332	242	32	16	16	1056
	4003	432	385	243	306	218	191	1775
	4004	392	329	261	98	200	29	1309
	4005	446	121	5	2	0	0	574
	4006	482	241	83	2	17	3	828
	4007	503	240	24	14	9	6	796
	4008	320	63	9	10	11	4	417
	4009	372	322	301	71	12	2	1080
	4010	433	258	225	39	1	10	966
	Mean	421	257	142	60	48	28	957
	S.D.	53	99	121	92	85	58	385
Female	4101	429	364	275	86	341	176	1671
	4102	367	45	1	149	342	359	1263
	4103	299	292	33	0	330	244	1198
	4104	105	129	275	411	127	1	1048
	4105	104	230	331	49	6	4	724
	4106	117	6	4	13	348	124	612
	4107	360	199	333	178	115	375	1560
	4108	234	202	85	0	218	295	1034
	4109	40	92	342	131	256	45	906
	4110	386	333	278	242	271	104	1614
	Mean	244	189	196	126	235	173	1163
	S.D.	143	121	146	129	118	140	369

Unit : Count

Appendix 2-77

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual motor activity (Week 2 of recovery)  
 Dose (mg/kg) : 0

Sex	Animal number	Interval (minutes)						Total (0-60)
		0-10	10-20	20-30	30-40	40-50	50-60	
Male	1006	271	267	260	159	59	10	1026
	1007	320	287	246	201	243	207	1504
	1008	389	302	220	197	559	84	1751
	1009	280	214	86	14	3	6	603
	1010	378	337	161	184	54	14	1128
	Mean	328	281	195	151	184	64	1202
S.D.	54	46	72	78	229	86	444	
Female	1106	384	335	306	218	60	7	1310
	1107	287	277	258	107	2	0	931
	1108	407	160	503	189	231	80	1570
	1109	298	201	214	0	2	0	715
	1110	325	151	16	23	4	1	520
	Mean	340	225	259	107	60	18	1009
S.D.	53	79	175	97	99	35	429	

Unit : Count

Appendix 2-78

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats with a Recovery Period for 14 Days  
 Individual motor activity (Week 2 of recovery)  
 Dose (mg/kg) : 1000

Sex	Animal number	Interval (minutes)						Total (0-60)
		0-10	10-20	20-30	30-40	40-50	50-60	
Male	4006	367	318	221	0	0	3	909
	4007	315	259	180	2	18	25	799
	4008	238	194	73	0	1	0	506
	4009	227	199	162	166	138	7	899
	4010	400	137	14	154	10	28	743
	Mean	309	221	130	64	33	13	771
S.D.	77	69	84	87	59	13	164	
Female	4106	244	226	2	314	257	42	1085
	4107	320	243	365	190	290	22	1430
	4108	364	83	1	290	28	2	768
	4109	311	25	122	0	139	0	597
	4110	314	168	302	233	136	29	1182
	Mean	311	149	158	205	170	19	1012
S.D.	43	93	169	125	105	18	332	

Unit : Count

Appendix 3 - 1

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Body weight

Period : Administration Day 1-29

Sex : Male

Dose : 2-Methylhexane 0 mg/kg

Unit : g

Species : Rat

Animal No.	/Day					Body weight gain
	1	7	14	21	28	
1001	218	272	334	376	416	198
1002	228	276	330	375	410	182
1003	204	250	291	321	346	142
1004	208	257	311	347	384	176
1005	206	261	309	351	382	176
1006	220	279	334	384	405	185
1007	217	282	355	408	456	239
1008	208	256	307	350	384	176
1009	212	268	336	380	427	215
1010	223	268	312	353	384	161
n	10	10	10	10	10	10
Mean	214	267	322	365	399	185
S.D.	8	11	19	25	30	27



Appendix 3 - 2

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Body weight

Period : Recovery Day 1-15

Sex : Male

Dose : 2-Methylhexane 0 mg/kg

Unit : g

Species : Rat

Animal No.	/Day			Body weight gain
	1	7	14	
1006	408	428	458	50
1007	461	492	513	52
1008	387	412	439	52
1009	433	454	468	35
1010	389	418	433	44
n	5	5	5	5
Mean	416	441	462	47
S.D.	31	33	32	7

Appendix 3 - 3

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Body weight

Period : Administration Day 1-29

Sex : Male

Dose : 2-Methylhexane 100 mg/kg

Unit : g

Species : Rat

Animal No.	/Day					Body weight gain
	1	7	14	21	28	
2001	220	266	317	355	389	169
2002	217	270	325	354	382	165
2003	206	261	312	338	370	164
2004	225	275	328	355	390	165
2005	204	255	301	333	351	147
n	5	5	5	5	5	5
Mean	214	265	317	347	376	162
S.D.	9	8	11	11	16	9

Appendix 3 - 4

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Body weight

Period : Administration Day 1-29

Sex : Male

Dose : 2-Methylhexane 300 mg/kg

Unit : g

Species : Rat

Animal No.	/Day					Body weight gain
	1	7	14	21	28	
3001	229	286	341	374	400	171
3002	208	260	307	343	376	168
3003	209	250	305	344	375	166
3004	218	273	325	376	410	192
3005	212	260	315	355	381	169
n	5	5	5	5	5	5
Mean	215	266	319	358	388	173
S.D.	9	14	15	16	16	11

Animal No.	Body weight						Unit : g	Species : Rat
	/Day	1	7	14	21	28		
4001		202	251	303	348	386	184	
4002		227	279	332	365	389	162	
4003		211	265	317	343	369	158	
4004		221	277	335	379	418	197	
4005		215	266	306	324	353	138	
4006		208	259	316	350	380	172	
4007		208	254	315	352	385	177	
4008		218	272	323	364	401	183	
4009		220	275	324	344	367	147	
4010		206	262	317	352	385	179	
n		10	10	10	10	10	10	
Mean		214	266	319	352	383	170	
S.D.		8	10	10	15	18	18	

Appendix 3 - 6

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Body weight

Period : Recovery Day 1-15

Sex : Male

Dose : 2-Methylhexane 1000 mg/kg

Unit : g

Species : Rat

Animal No.	/Day			Body weight gain
	1	7	14	
4006	379	406	434	55
4007	388	411	429	41
4008	404	420	444	40
4009	367	384	407	40
4010	392	412	436	44
n	5	5	5	5
Mean	386	407	430	44
S.D.	14	14	14	6

Animal No.	Body weight						Body weight gain
	/Day						
	1	7	14	21	28		
1101	154	161	196	210	225	71	
1102	157	168	195	216	228	71	
1103	151	174	187	199	219	68	
1104	155	173	181	201	218	63	
1105	177	198	222	242	257	80	
1106	163	183	197	207	220	57	
1107	167	198	208	230	241	74	
1108	168	177	203	217	233	65	
1109	156	186	211	218	233	77	
1110	150	169	183	206	219	69	
n	10	10	10	10	10	10	
Mean	160	179	198	215	229	70	
S.D.	9	12	13	13	12	7	

Appendix 3 - 8

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Body weight

Period : Recovery Day 1-15

Sex : Female

Dose : 2-Methylhexane 0 mg/kg

Unit : g

Species : Rat

Animal No.	/Day			Body weight gain
	1	7	14	
1106	213	230	235	22
1107	243	256	258	15
1108	234	244	254	20
1109	228	247	254	26
1110	224	233	233	9
n	5	5	5	5
Mean	228	242	247	18
S.D.	11	11	12	7

Appendix 3 - 9

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Body weight

Period : Administration Day 1-29

Sex : Female

Dose : 2-Methylhexane 100 mg/kg

Unit : g

Species : Rat

Animal No.	/Day					Body weight gain
	1	7	14	21	28	
2101	169	196	220	241	252	83
2102	162	186	205	228	249	87
2103	168	188	203	227	250	82
2104	174	200	224	229	256	82
2105	157	169	197	216	226	69
n	5	5	5	5	5	5
Mean	166	188	210	228	247	81
S.D.	7	12	12	9	12	7



Animal No.	/Day						Body weight gain
	1	7	14	21	28		
3101	160	184	198	228	244	84	
3102	177	195	227	241	253	76	
3103	161	182	203	223	245	84	
3104	148	171	196	206	229	81	
3105	157	174	181	200	202	45	
n	5	5	5	5	5	5	
Mean	161	181	201	220	235	74	
S.D.	11	9	17	17	20	17	

Animal No.	Body weight						Body weight gain
	/Day	1	7	14	21	28	
4101		171	189	208	224	228	57
4102		164	184	205	227	244	80
4103		172	192	217	240	244	72
4104		172	187	213	229	242	70
4105		155	177	201	225	231	76
4106		153	171	188	207	224	71
4107		159	173	193	202	217	58
4108		171	196	225	244	250	79
4109		154	163	189	206	219	65
4110		147	168	180	185	202	55
n		10	10	10	10	10	10
Mean		162	180	202	219	230	68
S.D.		9	11	14	18	15	9

Body weight

Period : Recovery Day 1-15

Sex : Female

Dose : 2-Methylhexane 1000 mg/kg

Unit : g

Species : Rat

Animal No.	/Day			Body weight gain	
	1	7	14		
4106	224	227	233	9	
4107	215	232	237	22	
4108	259	264	273	14	
4109	222	215	228	6	
4110	196	213	214	18	
n	5	5	5	5	
Mean	223	230	237	14	
S.D.	23	21	22	6	

Appendix 4 - 1

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Food consumption

Period : Acclimation Day -1-1, Administration Day 1-29

Sex : Male

Dose : 2-Methylhexane 0 mg/kg

Unit : g

Species : Rat

Animal No.	/Day					
	1	7	14	21	28	
1001	24	25	27	26	25	
1002						
1003	20	23	23	22	21	
1004						
1005	23	25	27	27	27	
1006						
1007	22	25	27	27	25	
1008						
1009	23	24	26	26	25	
1010						
n	5	5	5	5	5	
Mean	22	24	26	26	25	
S.D.	2	1	2	2	2	

Appendix 4 - 2

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Food consumption

Period : Recovery Day 1-15

Sex : Male

Dose : 2-Methylhexane 0 mg/kg

Unit : g

Species : Rat

Animal No.	/Day	
	7	14
1006	32	31
1007	30	30
1008		
1009	29	30
1010		
n	3	3
Mean	30	30
S.D.	2	1

Appendix 4 - 3

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Food consumption

Period : Acclimation Day -1-1, Administration Day 1-29

Sex : Male

Dose : 2-Methylhexane 100 mg/kg

Unit : g

Species : Rat

Animal No.	/Day					
	1	7	14	21	28	
2001	25	24	25	23	22	
2002						
2003	23	24	25	23	23	
2004						
2005	23	24	24	23	20	
n	3	3	3	3	3	
Mean	24	24	25	23	22	
S.D.	1	0	1	0	2	

Appendix 4 - 4

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Food consumption

Period : Acclimation Day -1-1, Administration Day 1-29

Sex : Male

Dose : 2-Methylhexane 300 mg/kg

Unit : g

Species : Rat

Animal No.	/Day				
	1	7	14	21	28
3001	23	23	27	26	25
3002					
3003	24	24	25	26	25
3004					
3005	23	24	26	25	23
n	3	3	3	3	3
Mean	23	24	26	26	24
S.D.	1	1	1	1	1

Appendix 4 - 5

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Food consumption

Period : Acclimation Day -1-1, Administration Day 1-29

Sex : Male

Dose : 2-Methylhexane 1000 mg/kg

Unit : g

Species : Rat

Animal No.	/Day				
	1	7	14	21	28
4001	23	24	26	26	26
4002					
4003	24	26	28	27	27
4004					
4005	24	25	26	25	25
4006					
4007	24	25	27	27	27
4008					
4009	21	26	27	27	25
4010					
n	5	5	5	5	5
Mean	23	25	27	26	26
S.D.	1	1	1	1	1



Appendix 4 - 6

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Food consumption

Period : Recovery Day 1-15

Sex : Male

Dose : 2-Methylhexane 1000 mg/kg

Unit : g

Species : Rat

Animal No.	/Day	
	7	14
4006	27	30
4007	30	29
4008		
4009	29	29
4010		
n	3	3
Mean	29	29
S.D.	2	1

Appendix 4 - 7

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Food consumption

Period : Acclimation Day -1-1, Administration Day 1-29

Sex : Female

Dose : 2-Methylhexane 0 mg/kg

Unit : g

Species : Rat

Animal No.	/Day				
	1	7	14	21	28
1101	15	14	15	15	15
1102					
1103	14	14	14	15	15
1104					
1105	16	16	16	16	17
1106					
1107	15	16	16	17	17
1108					
1109	13	15	15	17	17
1110					
n	5	5	5	5	5
Mean	15	15	15	16	16
S.D.	1	1	1	1	1

Appendix 4 - 8

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Food consumption

Period : Recovery Day 1-15

Sex : Female

Dose : 2-Methylhexane 0 mg/kg

Unit : g

Species : Rat

Animal No.	/Day	
	7	14
1106	18	18
1107	18	18
1108		
1109	20	19
1110		
n	3	3
Mean	19	18
S.D.	1	1

Appendix 4 - 9

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Food consumption

Period : Acclimation Day -1-1, Administration Day 1-29

Sex : Female

Dose : 2-Methylhexane 100 mg/kg

Unit : g

Species : Rat

Animal No.	/Day					
	1	7	14	21	28	
2101	17	16	17	18	18	
2102						
2103	18	17	17	18	19	
2104						
2105	15	14	15	16	15	
n	3	3	3	3	3	
Mean	17	16	16	17	17	
S.D.	2	2	1	1	2	

Food consumption

Period : Acclimation Day -1-1, Administration Day 1-29

Sex : Female

Dose : 2-Methylhexane 300 mg/kg

Unit : g

Species : Rat

Animal No.	/Day					
	1	7	14	21	28	
3101	17	16	16	17	16	
3102						
3103	14	15	16	16	17	
3104						
3105	15	15	15	16	14	
n	3	3	3	3	3	
Mean	15	15	16	16	16	
S.D.	2	1	1	1	2	

Appendix 4 - 11

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Food consumption

Period : Acclimation Day -1-1, Administration Day 1-29

Sex : Female

Dose : 2-Methylhexane 1000 mg/kg

Unit : g

Species : Rat

Animal No.	/Day				
	1	7	14	21	28
4101	18	17	18	18	18
4102					
4103	17	16	18	18	17
4104					
4105	15	15	16	17	16
4106					
4107	15	16	16	17	17
4108					
4109	13	13	14	15	15
4110					
n	5	5	5	5	5
Mean	16	15	16	17	17
S.D.	2	2	2	1	1

Appendix 4 - 12

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Food consumption

Period : Recovery Day 1-15

Sex : Female

Dose : 2-Methylhexane 1000 mg/kg

Unit : g

Species : Rat

Animal No.	/Day	
	7	14
4106	18	19
4107	20	18
4108		
4109	17	17
4110		
n	3	3
Mean	18	18
S.D.	2	1

Urinalysis		Stage : Week 4 of dosing							Species : Rat		
Sex : Male		Dose : 2-Methylhexane 0 mg/kg									
Animal No.	pH	Protein	Ketones	Glucose	Occult blood	Urobilinogen	Bilirubin	Specific gravity	Color	RBC	WBC
1001	7.5	1+	1+	-	-	+/-	-	1.020	Y	-	-
1002	8.0	2+	1+	-	-	+/-	-	1.025	Y	-	-
1003	>=9.0	1+	1+	-	-	+/-	-	1.020	Y	-	-
1004	6.5	+/-	1+	-	-	+/-	-	1.015	Y	-	-
1005	>=9.0	2+	1+	-	+/-	+/-	-	1.015	Y	-	-
n	5	5	5	5	5	5	5	5	5	5	5

Animal No.	Squamous epithelial cells	Small round epithelial cells	Cast	Crystal phosphate salts	Crystal calcium oxalate
1001	+/-	-	-	-	-
1002	+/-	-	-	+/-	-
1003	+/-	-	-	+/-	-
1004	+/-	-	-	-	-
1005	+/-	-	-	-	-
n	5	5	5	5	5



Appendix 5 - 2

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Urinalysis

Stage : Week 4 of dosing

Sex : Male

Dose : 2-Methylhexane 0 mg/kg

Species : Rat

Urine volume

Animal No.	mL
1001	9.4
1002	6.4
1003	6.7
1004	4.9
1005	6.3
n	5
Mean	6.7
S.D.	1.6

Animal No.	Urinalysis										
	pH	Protein	Ketones	Glucose	Occult blood	Urobilinogen	Bilirubin	Specific gravity	Color	RBC	WBC
2001	8.5	1+	1+	-	-	+/-	-	1.020	Y	-	-
2002	7.5	2+	2+	-	-	+/-	-	>=1.030	Y	-	-
2003	8.5	3+	2+	-	+/-	+/-	-	1.025	Y	-	-
2004	6.5	2+	2+	-	-	+/-	-	>=1.030	Y	-	-
2005	8.0	2+	1+	-	-	+/-	-	1.025	Y	-	-
n	5	5	5	5	5	5	5	5	5	5	5

Animal No.	Sediment				
	Squamous epithelial cells	Small round epithelial cells	Cast	Crystal phosphate salts	Crystal calcium oxalate
2001	+/-	-	-	-	-
2002	+/-	-	-	-	+/-
2003	+/-	-	-	-	-
2004	+/-	-	-	-	-
2005	+/-	+/-	-	-	-
n	5	5	5	5	5

Appendix 5 - 4

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Urinalysis

Stage : Week 4 of dosing

Sex : Male

Dose : 2-Methylhexane 100 mg/kg

Species : Rat

Urine volume

Animal No.	mL
2001	9.4
2002	5.5
2003	5.4
2004	5.4
2005	9.6
n	5
Mean	7.1
S.D.	2.2

Animal No.	Urinalysis										
	pH	Protein	Ketones	Glucose	Occult blood	Urobilinogen	Bilirubin	Specific gravity	Color	RBC	WBC
3001	8.5	1+	+/-	-	-	+/-	-	1.020	Y	-	-
3002	>=9.0	2+	2+	1+	-	+/-	-	>=1.030	Y	-	-
3003	>=9.0	1+	1+	-	-	+/-	-	1.010	Y	-	-
3004	6.0	1+	1+	-	-	+/-	-	>=1.030	Y	-	-
3005	6.5	3+	1+	-	-	+/-	-	>=1.030	Y	-	-
n	5	5	5	5	5	5	5	5	5	5	5

Animal No.	Stage : Week 4 of dosing Dose : 2-Methylhexane 300 mg/kg				
	Squamous epithelial cells	Small round epithelial cells	Cast	Crystal phosphate salts	Crystal calcium oxalate
3001	+/-	1+	-	-	-
3002	+/-	+/-	-	+/-	-
3003	+/-	-	-	-	-
3004	+/-	-	-	-	-
3005	+/-	+/-	-	-	-
n	5	5	5	5	5

Appendix 5 - 6

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Urinalysis

Stage : Week 4 of dosing

Sex : Male

Dose : 2-Methylhexane 300 mg/kg

Species : Rat

Urine volume

Animal No.	mL
3001	22.1
3002	7.3
3003	4.2
3004	4.1
3005	6.5
n	5
Mean	8.8
S.D.	7.5

Animal No.	Urinalysis										
	pH	Protein	Ketones	Glucose	Occult blood	Urobilinogen	Bilirubin	Specific gravity	Color	RBC	WBC
4001	6.5	2+	1+	-	-	+/-	-	>=1.030	Y	-	-
4002	6.5	2+	1+	-	-	+/-	-	>=1.030	Y	-	-
4003	7.0	+/-	+/-	-	-	+/-	-	1.015	Y	-	-
4004	7.0	2+	1+	-	-	+/-	-	>=1.030	Y	-	-
4005	5.5	2+	1+	-	-	+/-	-	>=1.030	Y	-	-
n	5	5	5	5	5	5	5	5	5	5	5

Animal No.	Stage : Week 4 of dosing Dose : 2-Methylhexane 1000 mg/kg				
	Squamous epithelial cells	Small round epithelial cells	Cast	Crystal phosphate salts	Crystal calcium oxalate
4001	+/-	+/-	-	-	-
4002	+/-	1+	-	-	-
4003	+/-	+/-	-	-	-
4004	+/-	1+	-	+/-	-
4005	+/-	+/-	-	-	-
n	5	5	5	5	5

Appendix 5 - 8

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Urinalysis

Stage : Week 4 of dosing

Sex : Male

Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

Urine volume

Animal No.	mL
4001	6.5
4002	13.9
4003	10.4
4004	7.1
4005	4.6
n	5
Mean	8.5
S.D.	3.7

Animal No.	Urinalysis										
	pH	Protein	Ketones	Glucose	Occult blood	Urobilinogen	Bilirubin	Specific gravity	Color	RBC	WBC
1006	8.5	1+	1+	-	-	+/-	-	1.015	Y	-	-
1007	8.5	+/-	+/-	-	-	+/-	-	1.015	Y	-	-
1008	8.5	-	1+	-	-	+/-	-	1.010	Y	-	-
1009	8.5	2+	1+	-	-	+/-	-	1.015	Y	-	-
1010	8.5	1+	1+	-	-	+/-	-	1.010	Y	-	-
n	5	5	5	5	5	5	5	5	5	5	5

Animal No.	Stage : Week 2 of recovery Dose : 2-Methylhexane 0 mg/kg				
	Squamous epithelial cells	Small round epithelial cells	Cast	Crystal phosphate salts	Crystal calcium oxalate
1006	+/-	-	-	-	-
1007	+/-	-	-	+/-	-
1008	+/-	-	-	-	-
1009	+/-	-	-	+/-	-
1010	+/-	-	-	+/-	-
n	5	5	5	5	5



Urinalysis

Stage : Week 2 of recovery

Sex : Male

Dose : 2-Methylhexane 0 mg/kg

Species : Rat

Urine volume

Animal No.	mL
1006	9.9
1007	17.3
1008	9.4
1009	12.1
1010	8.5
n	5
Mean	11.4
S.D.	3.5

Animal No.	Urinalysis										
	pH	Protein	Ketones	Glucose	Occult blood	Urobilinogen	Bilirubin	Specific gravity	Color	RBC	WBC
4006	8.5	+/-	1+	-	-	+/-	-	1.015	Y	-	-
4007	8.5	1+	1+	-	-	+/-	-	1.020	Y	-	-
4008	7.5	1+	1+	-	-	+/-	-	>=1.030	Y	-	-
4009	8.5	1+	1+	-	-	+/-	-	1.015	Y	-	-
4010	8.0	1+	2+	-	-	+/-	-	>=1.030	Y	-	-
n	5	5	5	5	5	5	5	5	5	5	5

Animal No.	Sediment				
	Squamous epithelial cells	Small round epithelial cells	Cast	Crystal phosphate salts	Crystal calcium oxalate
4006	+/-	-	-	-	-
4007	+/-	-	-	-	-
4008	+/-	-	-	-	-
4009	+/-	-	-	+/-	-
4010	+/-	-	-	-	-
n	5	5	5	5	5

Appendix 5 - 12

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Urinalysis

Stage : Week 2 of recovery

Sex : Male

Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

Urine volume

Animal No.	mL
4006	18.4
4007	12.1
4008	9.2
4009	9.6
4010	6.5
n	5
Mean	11.2
S.D.	4.5

Animal No.	Urinalysis										
	pH	Protein	Ketones	Glucose	Occult blood	Urobilinogen	Bilirubin	Specific gravity	Color	RBC	WBC
1101	7.0	2+	1+	-	-	+/-	-	>=1.030	Y	-	-
1102	7.0	+/-	+/-	-	-	+/-	-	1.025	Y	-	-
1103	8.5	+/-	-	-	-	+/-	-	1.015	Y	-	-
1104	8.0	1+	-	-	-	+/-	-	1.025	Y	-	-
1105	>=9.0	+/-	+/-	-	-	+/-	-	1.015	Y	-	-
n	5	5	5	5	5	5	5	5	5	5	5

Animal No.	Sediment				
	Squamous epithelial cells	Small round epithelial cells	Cast	Crystal phosphate salts	Crystal calcium oxalate
1101	+/-	-	-	-	-
1102	+/-	-	-	-	-
1103	+/-	-	-	-	-
1104	+/-	-	-	-	-
1105	+/-	-	-	-	-
n	5	5	5	5	5

Appendix 5 - 14

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Urinalysis

Stage : Week 4 of dosing

Sex : Female

Dose : 2-Methylhexane 0 mg/kg

Species : Rat

Urine volume

Animal No.	mL
1101	2.9
1102	2.6
1103	4.3
1104	3.5
1105	10.3
n	5
Mean	4.7
S.D.	3.2

Urinalysis		Stage : Week 4 of dosing Dose : 2-Methylhexane 100 mg/kg							Species : Rat			
Sex : Female		pH	Protein	Ketones	Glucose	Occult blood	Urobilinogen	Bilirubin	Specific gravity	Color	RBC	WBC
Animal No.												
2101	6.5	1+	+/-	1+	-	+/-	-	>=1.030	Y	-	-	
2102	>=9.0	2+	1+	1+	-	+/-	-	1.015	Y	-	-	
2103	8.5	-	-	-	-	+/-	-	1.015	Y	-	-	
2104	6.0	2+	1+	-	-	+/-	-	>=1.030	Y	-	-	
2105	6.0	+/-	+/-	-	-	+/-	-	1.025	Y	-	-	
n	5	5	5	5	5	5	5	5	5	5	5	
Animal No.												
2101	+/-	-	-	-	-	-	-	-	-	-	-	
2102	+/-	-	-	-	+/-	-	-	-	-	-	-	
2103	+/-	-	-	-	-	-	-	-	-	-	-	
2104	+/-	-	-	-	-	-	-	-	-	-	-	
2105	+/-	-	-	-	-	-	-	-	-	-	-	
n	5	5	5	5	5	5	5	5	5	5	5	

Urinalysis

Stage : Week 4 of dosing

Sex : Female

Dose : 2-Methylhexane 100 mg/kg

Species : Rat

Urine volume

Animal No.	mL
2101	5.4
2102	4.0
2103	7.9
2104	3.3
2105	2.1
n	5
Mean	4.5
S.D.	2.2

Animal No.	Urinalysis										
	pH	Protein	Ketones	Glucose	Occult blood	Urobilinogen	Bilirubin	Specific gravity	Color	RBC	WBC
3101	>=9.0	+/-	-	-	-	+/-	-	1.010	Y	-	-
3102	8.0	-	-	-	-	+/-	-	1.010	Y	-	-
3103	6.5	+/-	+/-	-	-	+/-	-	1.020	Y	-	-
3104	7.0	+/-	+/-	-	-	+/-	-	1.015	Y	-	-
3105	8.5	-	-	-	-	+/-	-	1.020	Y	-	-
n	5	5	5	5	5	5	5	5	5	5	5

Animal No.	Urinalysis				
	Squamous epithelial cells	Small round epithelial cells	Cast	Crystal phosphate salts	Crystal calcium oxalate
3101	+/-	-	-	-	-
3102	+/-	-	-	-	-
3103	+/-	-	-	-	-
3104	+/-	-	-	-	-
3105	+/-	-	-	-	-
n	5	5	5	5	5



Urinalysis

Stage : Week 4 of dosing

Sex : Female

Dose : 2-Methylhexane 300 mg/kg

Species : Rat

Urine volume

Animal No.	mL
3101	5.3
3102	3.5
3103	4.8
3104	4.0
3105	4.4
n	5
Mean	4.4
S.D.	0.7

Urinalysis		Stage : Week 4 of dosing							Species : Rat		
Sex : Female		Dose : 2-Methylhexane 1000 mg/kg									
Animal No.	pH	Protein	Ketones	Glucose	Occult blood	Urobilinogen	Bilirubin	Specific gravity	Color	RBC	WBC
4101	7.0	-	-	-	-	+/-	-	<=1.005	Y	-	-
4102	8.5	+/-	-	-	-	+/-	-	1.015	Y	-	-
4103	8.0	+/-	+/-	-	-	+/-	-	1.025	Y	-	-
4104	6.0	1+	1+	-	-	+/-	-	>=1.030	Y	-	-
4105	7.5	+/-	+/-	-	-	+/-	-	1.020	Y	-	-
n	5	5	5	5	5	5	5	5	5	5	5

Animal No.	Squamous epithelial cells	Small round epithelial cells	Cast	Crystal phosphate salts	Crystal calcium oxalate
4101	+/-	-	-	-	-
4102	+/-	-	-	-	-
4103	+/-	-	-	-	-
4104	+/-	-	-	-	-
4105	+/-	-	-	-	-
n	5	5	5	5	5

Urinalysis

Stage : Week 4 of dosing

Sex : Female

Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

Urine volume

Animal No.	mL
4101	3.5
4102	11.0
4103	6.4
4104	2.7
4105	4.1
n	5
Mean	5.5
S.D.	3.3

Animal No.	Urinalysis										
	pH	Protein	Ketones	Glucose	Occult blood	Urobilinogen	Bilirubin	Specific gravity	Color	RBC	WBC
1106	8.5	-	-	-	-	+/-	-	1.010	Y	-	-
1107	8.5	-	-	-	-	+/-	-	1.015	Y	-	-
1108	8.5	-	-	-	-	+/-	-	1.010	Y	-	-
1109	8.5	-	-	-	-	+/-	-	1.010	Y	-	-
1110	8.5	-	+/-	-	-	+/-	-	1.015	Y	-	-
n	5	5	5	5	5	5	5	5	5	5	5

Animal No.	Urinalysis				
	Squamous epithelial cells	Small round epithelial cells	Cast	Crystal phosphate salts	Crystal calcium oxalate
1106	+/-	-	-	-	-
1107	+/-	-	-	+/-	-
1108	+/-	-	-	-	-
1109	+/-	-	-	-	-
1110	+/-	-	-	+/-	-
n	5	5	5	5	5

Urinalysis

Stage : Week 2 of recovery

Sex : Female

Dose : 2-Methylhexane 0 mg/kg

Species : Rat

Urine volume

Animal No.	mL
1106	10.5
1107	14.1
1108	3.4
1109	9.7
1110	4.6
n	5
Mean	8.5
S.D.	4.4

Urinalysis		Stage : Week 2 of recovery Dose : 2-Methylhexane 1000 mg/kg						Species : Rat				
Sex : Female		pH	Protein	Ketones	Glucose	Occult blood	Urobilinogen	Bilirubin	Specific gravity	Color	RBC	WBC
Animal No.												
4106		8.5	-	-	-	-	+/-	-	1.010	Y	-	-
4107		8.5	-	-	-	-	+/-	-	1.015	Y	-	-
4108		8.5	-	-	-	-	+/-	-	1.010	Y	-	-
4109		8.0	1+	+/-	-	-	+/-	-	1.025	Y	-	-
4110		8.5	-	-	-	-	+/-	-	1.010	Y	-	-
n		5	5	5	5	5	5	5	5	5	5	5
Animal No.												
4106		+/-	-	-	-	-	-	-	-	-	-	-
4107		+/-	-	-	-	-	-	-	-	-	-	-
4108		+/-	-	-	-	-	-	-	-	-	-	-
4109		+/-	-	-	+/-	-	-	-	-	-	-	-
4110		+/-	-	-	-	-	-	-	-	-	-	-
n		5	5	5	5	5	5	5	5	5	5	5

Appendix 5 - 24

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Urinalysis

Stage : Week 2 of recovery

Sex : Female

Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

Urine volume

Animal No.	mL
4106	8.9
4107	7.8
4108	4.5
4109	8.2
4110	8.4
n	5
Mean	7.6
S.D.	1.8

Species : Rat

Protein) -:Negative, +/-:15, 1+:30, 2+:100, 3+≥300 mg/dL  
Ketones) -:Negative, +/-:5, 1+:15, 2+:40, 3+:80 mg/dL  
Glucose) -:Negative, 1+:100, 2+:250, 3+:500, 4+≥1000 mg/dL  
Occult blood) -:Negative, +/-:0.015, 1+:0.062, 2+:0.135, 3+:0.405 mg/dL  
Urobilinogen) +/-:0.1-1.0, 1+:2.0, 2+:4.0, 3+:>8.0 Ehrlich U/dL  
Bilirubin) -:Negative, 1+:0.8, 2+:1.6, 3+:3.2 mg/dL  
Color) LY:Light yellow, Y:Yellow, DY:Dark yellow, Other:Other color, RB:Reddish brown  
RBC) -:Negative, +/-:Slight, 1+:Mild, 2+:Moderate, 3+:Severe  
WBC) -:Negative, +/-:Slight, 1+:Mild, 2+:Moderate, 3+:Severe  
Squamous epithelial cells) -:Negative, +/-:Slight, 1+:Mild, 2+:Moderate, 3+:Severe  
Small round epithelial cells) -:Negative, +/-:Slight, 1+:Mild, 2+:Moderate, 3+:Severe  
Cast) -:Negative, +/-:Slight, 1+:Mild, 2+:Moderate, 3+:Severe  
Crystal phosphate salts) -:Negative, +/-:Slight, 1+:Mild, 2+:Moderate, 3+:Severe  
Crystal calcium oxalate) -:Negative, +/-:Slight, 1+:Mild, 2+:Moderate, 3+:Severe



Hematology

Stage : End of dosing

Sex : Male

Dose : 2-Methylhexane 0 mg/kg

Species : Rat

	WBC	RBC	HGB	HCT	MCV	MCH	MCHC	RDW	PLT	Retic	NEUT
Animal No.	10 <sup>2</sup> /μL	10 <sup>6</sup> /μL	g/dL	%	fL	pg	g/dL	%	10 <sup>9</sup> /μL	10 <sup>9</sup> /L	10 <sup>2</sup> /μL
1001	115.8	828	16.4	48.3	58.3	19.9	34.0	11.8	118.6	222.6	19.3
1002	110.6	749	14.7	42.3	56.4	19.6	34.7	11.7	120.5	215.2	15.4
1003	57.6	811	16.2	47.5	58.5	19.9	34.1	11.8	118.3	167.5	9.9
1004	82.2	807	15.3	45.1	55.9	18.9	33.8	12.0	132.6	239.9	18.6
1005	128.0	840	15.6	47.2	56.2	18.6	33.1	11.1	117.1	187.7	27.5
n	5	5	5	5	5	5	5	5	5	5	5
Mean	98.8	807	15.6	46.1	57.1	19.4	33.9	11.7	121.4	206.6	18.1
S.D.	28.5	35	0.7	2.4	1.2	0.6	0.6	0.3	6.4	28.8	6.4

	LYMP	MONO	EOS	BASO	LUC
Animal No.	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL
1001	90.1	2.9	1.3	0.3	1.9
1002	91.1	2.4	0.5	0.2	1.0
1003	45.5	1.1	0.6	0.1	0.3
1004	61.4	1.2	0.5	0.1	0.5
1005	96.2	2.6	0.7	0.2	0.8
n	5	5	5	5	5
Mean	76.9	2.0	0.7	0.2	0.9
S.D.	22.2	0.8	0.3	0.1	0.6

Hematology  
Sex : MaleStage : End of dosing  
Dose : 2-Methylhexane 100 mg/kg

Species : Rat

	WBC	RBC	HGB	HCT	MCV	MCH	MCHC	RDW	PLT	Retic	NEUT
Animal No.	10 <sup>2</sup> /μL	10 <sup>6</sup> /μL	g/dL	%	fL	pg	g/dL	%	10 <sup>9</sup> /μL	10 <sup>9</sup> /L	10 <sup>2</sup> /μL
2001	106.3	763	15.2	44.4	58.2	19.9	34.1	12.4	124.8	207.4	19.6
2002	124.1	786	16.2	47.2	60.1	20.7	34.4	11.8	104.7	193.9	21.4
2003	77.2	789	15.8	45.5	57.7	20.1	34.8	11.8	118.3	180.4	17.9
2004	96.1	821	16.1	47.5	57.9	19.6	33.8	11.7	101.1	183.1	13.8
2005	82.8	857	16.6	48.4	56.5	19.4	34.3	11.5	101.8	182.2	16.9
n	5	5	5	5	5	5	5	5	5	5	5
Mean	97.3	803	16.0	46.6	58.1	19.9	34.3	11.8	110.1	189.4	17.9
S.D.	18.8	36	0.5	1.6	1.3	0.5	0.4	0.3	10.8	11.4	2.9

	LYMP	MONO	EOS	BASO	LUC
Animal No.	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL
2001	82.0	2.4	1.4	0.2	0.8
2002	98.6	2.5	0.7	0.1	0.8
2003	56.0	1.5	1.1	0.1	0.6
2004	79.5	1.4	0.7	0.1	0.5
2005	63.0	1.6	0.6	0.1	0.5
n	5	5	5	5	5
Mean	75.8	1.9	0.9	0.1	0.6
S.D.	16.8	0.5	0.3	0.0	0.2

Hematology

Stage : End of dosing

Sex : Male

Dose : 2-Methylhexane 300 mg/kg

Species : Rat

	WBC	RBC	HGB	HCT	MCV	MCH	MCHC	RDW	PLT	Retic	NEUT
Animal No.	10 <sup>2</sup> /μL	10 <sup>6</sup> /μL	g/dL	%	fL	pg	g/dL	%	10 <sup>4</sup> /μL	10 <sup>9</sup> /L	10 <sup>2</sup> /μL
3001	124.7	808	15.4	45.3	56.0	19.1	34.1	11.7	131.1	168.5	24.3
3002	100.0	811	15.7	46.5	57.4	19.3	33.7	11.9	106.6	168.8	19.6
3003	70.3	789	15.3	45.9	58.1	19.4	33.4	11.4	125.3	191.3	12.2
3004	88.1	762	14.7	43.3	56.7	19.2	33.9	11.6	112.3	200.9	17.1
3005	97.2	785	15.8	46.7	59.5	20.2	33.9	11.9	93.5	213.8	15.0
n	5	5	5	5	5	5	5	5	5	5	5
Mean	96.1	791	15.4	45.5	57.5	19.4	33.8	11.7	113.8	188.7	17.6
S.D.	19.8	20	0.4	1.4	1.3	0.4	0.3	0.2	15.0	19.9	4.6

	LYMP	MONO	EOS	BASO	LUC
Animal No.	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL
3001	93.9	3.2	1.4	0.2	1.6
3002	77.1	1.6	0.9	0.1	0.7
3003	56.1	0.9	0.5	0.1	0.7
3004	67.7	1.6	0.8	0.2	0.6
3005	78.9	1.4	0.7	0.1	1.0
n	5	5	5	5	5
Mean	74.7	1.7	0.9	0.1	0.9
S.D.	14.0	0.9	0.3	0.1	0.4

Hematology  
Sex : MaleStage : End of dosing  
Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

	WBC	RBC	HGB	HCT	MCV	MCH	MCHC	RDW	PLT	Retic	NEUT
Animal No.	10 <sup>2</sup> /μL	10 <sup>6</sup> /μL	g/dL	%	fL	pg	g/dL	%	10 <sup>9</sup> /μL	10 <sup>9</sup> /L	10 <sup>2</sup> /μL
4001	113.4	751	15.5	45.8	60.9	20.6	33.9	11.9	109.8	227.7	18.1
4002	111.9	848	16.5	48.8	57.6	19.4	33.7	11.3	124.1	194.9	29.1
4003	141.5	791	15.6	45.5	57.5	19.7	34.3	11.5	123.8	163.0	33.6
4004	97.4	741	15.4	45.7	61.8	20.9	33.8	11.8	114.5	210.4	13.3
4005	113.0	792	15.7	45.6	57.6	19.8	34.4	12.2	131.2	174.0	26.0
n	5	5	5	5	5	5	5	5	5	5	5
Mean	115.4	785	15.7	46.3	59.1	20.1	34.0	11.7	120.7	194.0	24.0
S.D.	16.0	42	0.4	1.4	2.1	0.6	0.3	0.4	8.5	26.3	8.2

	LYMP	MONO	EOS	BASO	LUC
Animal No.	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL
4001	92.0	1.6	0.5	0.1	1.2
4002	77.3	3.2	0.6	0.2	1.5
4003	104.0	2.1	0.9	0.3	0.8
4004	81.1	1.5	0.7	0.2	0.7
4005	82.1	2.2	1.2	0.2	1.3
n	5	5	5	5	5
Mean	87.3	2.1	0.8	0.2	1.1
S.D.	10.8	0.7	0.3	0.1	0.3

Hematology

Stage : End of recovery

Sex : Male

Dose : 2-Methylhexane 0 mg/kg

Species : Rat

	WBC	RBC	HGB	HCT	MCV	MCH	MCHC	RDW	PLT	Retic	NEUT
Animal No.	10 <sup>2</sup> /μL	10 <sup>6</sup> /μL	g/dL	%	fL	pg	g/dL	%	10 <sup>9</sup> /μL	10 <sup>9</sup> /L	10 <sup>2</sup> /μL
1006	97.3	793	15.1	44.0	55.5	19.1	34.4	11.7	111.3	179.0	18.5
1007	77.5	771	15.4	45.1	58.4	19.9	34.1	11.6	100.3	185.7	17.2
1008	87.8	830	15.3	45.8	55.2	18.5	33.4	11.5	106.5	225.6	15.7
1009	86.5	816	15.5	45.5	55.8	19.0	34.1	11.7	92.2	236.1	25.9
1010	91.9	818	15.8	45.4	55.5	19.3	34.9	12.0	107.5	215.8	9.7
n	5	5	5	5	5	5	5	5	5	5	5
Mean	88.2	806	15.4	45.2	56.1	19.2	34.2	11.7	103.6	208.4	17.4
S.D.	7.3	24	0.3	0.7	1.3	0.5	0.5	0.2	7.5	25.0	5.8

	LYMP	MONO	EOS	BASO	LUC
Animal No.	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL
1006	74.8	2.1	0.9	0.1	1.0
1007	55.9	2.4	1.5	0.1	0.4
1008	68.8	1.3	1.3	0.1	0.6
1009	57.0	1.3	1.5	0.1	0.7
1010	79.7	0.8	0.9	0.2	0.8
n	5	5	5	5	5
Mean	67.2	1.6	1.2	0.1	0.7
S.D.	10.6	0.7	0.3	0.0	0.2

Hematology

Stage : End of recovery

Sex : Male

Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

	WBC	RBC	HGB	HCT	MCV	MCH	MCHC	RDW	PLT	Retic	NEUT
Animal No.	10 <sup>2</sup> /μL	10 <sup>6</sup> /μL	g/dL	%	fL	pg	g/dL	%	10 <sup>9</sup> /μL	10 <sup>9</sup> /L	10 <sup>2</sup> /μL
4006	70.5	827	15.4	44.6	53.9	18.6	34.5	11.5	106.4	168.8	13.3
4007	76.3	829	15.9	46.4	56.0	19.2	34.2	11.4	130.6	217.6	9.8
4008	123.8	802	15.5	44.5	55.5	19.3	34.8	11.9	99.3	188.0	18.0
4009	73.0	828	14.5	43.1	52.1	17.5	33.6	12.3	128.3	158.3	8.1
4010	124.3	775	15.2	44.1	56.9	19.6	34.4	11.5	98.9	215.8	23.5
n	5	5	5	5	5	5	5	5	5	5	5
Mean	93.6	812	15.3	44.5	54.9	18.8	34.3	11.7	112.7	189.7	14.5
S.D.	27.9	24	0.5	1.2	1.9	0.8	0.4	0.4	15.6	26.9	6.3

	LYMP	MONO	EOS	BASO	LUC
Animal No.	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL
4006	54.5	1.8	0.6	0.0	0.3
4007	62.6	2.1	0.8	0.1	0.9
4008	100.7	2.0	1.1	0.3	1.7
4009	62.8	0.9	0.8	0.0	0.4
4010	94.3	4.4	0.8	0.2	1.1
n	5	5	5	5	5
Mean	75.0	2.2	0.8	0.1	0.9
S.D.	21.0	1.3	0.2	0.1	0.6

Hematology  
Sex : FemaleStage : End of dosing  
Dose : 2-Methylhexane 0 mg/kg

Species : Rat

	WBC	RBC	HGB	HCT	MCV	MCH	MCHC	RDW	PLT	Retic	NEUT
Animal No.	10 <sup>2</sup> /μL	10 <sup>6</sup> /μL	g/dL	%	fL	pg	g/dL	%	10 <sup>9</sup> /μL	10 <sup>9</sup> /L	10 <sup>2</sup> /μL
1101	59.9	733	14.9	41.4	56.5	20.3	36.0	11.8	135.0	160.5	8.1
1102	72.5	799	15.5	44.4	55.6	19.4	34.8	11.0	112.7	161.5	14.1
1103	72.5	748	14.9	42.7	57.1	19.8	34.7	10.9	112.5	166.0	12.9
1104	59.7	746	14.8	43.3	58.1	19.9	34.2	10.8	111.5	176.7	14.8
1105	49.7	733	14.1	40.6	55.4	19.3	34.8	10.4	124.3	131.8	6.4
n	5	5	5	5	5	5	5	5	5	5	5
Mean	62.9	752	14.8	42.5	56.5	19.7	34.9	11.0	119.2	159.3	11.3
S.D.	9.7	27	0.5	1.5	1.1	0.4	0.7	0.5	10.3	16.7	3.8

	LYMP	MONO	EOS	BASO	LUC
Animal No.	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL
1101	48.6	1.4	1.4	0.1	0.3
1102	54.5	1.6	1.3	0.2	0.8
1103	56.0	1.7	0.9	0.0	1.0
1104	42.5	1.3	0.7	0.1	0.3
1105	41.3	0.8	0.7	0.0	0.5
n	5	5	5	5	5
Mean	48.6	1.4	1.0	0.1	0.6
S.D.	6.7	0.4	0.3	0.1	0.3

Hematology  
Sex : FemaleStage : End of dosing  
Dose : 2-Methylhexane 100 mg/kg

Species : Rat

	WBC	RBC	HGB	HCT	MCV	MCH	MCHC	RDW	PLT	Retic	NEUT
Animal No.	10 <sup>2</sup> /μL	10 <sup>6</sup> /μL	g/dL	%	fL	pg	g/dL	%	10 <sup>4</sup> /μL	10 <sup>9</sup> /L	10 <sup>2</sup> /μL
2101	71.7	733	14.2	41.2	56.2	19.4	34.4	11.0	126.1	165.5	7.2
2102	64.5	804	15.3	44.2	55.0	19.0	34.6	11.1	115.8	163.7	6.1
2103	77.0	730	14.9	42.5	58.2	20.5	35.2	11.0	93.7	180.4	14.0
2104	48.6	776	14.6	41.4	53.4	18.8	35.2	11.1	109.8	118.5	7.4
2105	89.0	760	15.3	43.4	57.2	20.2	35.3	10.8	119.1	125.2	6.1
n	5	5	5	5	5	5	5	5	5	5	5
Mean	70.2	761	14.9	42.5	56.0	19.6	34.9	11.0	112.9	150.7	8.2
S.D.	15.0	31	0.5	1.3	1.9	0.7	0.4	0.1	12.2	27.2	3.3

	LYMP	MONO	EOS	BASO	LUC
Animal No.	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL
2101	62.4	1.0	0.4	0.0	0.6
2102	54.6	1.8	1.3	0.1	0.6
2103	60.4	1.3	0.7	0.1	0.5
2104	39.1	1.1	0.6	0.1	0.4
2105	78.7	2.3	0.9	0.2	0.6
n	5	5	5	5	5
Mean	59.0	1.5	0.8	0.1	0.5
S.D.	14.3	0.5	0.3	0.1	0.1



Hematology  
Sex : FemaleStage : End of dosing  
Dose : 2-Methylhexane 300 mg/kg

Species : Rat

	WBC	RBC	HGB	HCT	MCV	MCH	MCHC	RDW	PLT	Retic	NEUT
Animal No.	10 <sup>2</sup> /μL	10 <sup>6</sup> /μL	g/dL	%	fL	pg	g/dL	%	10 <sup>9</sup> /μL	10 <sup>9</sup> /L	10 <sup>2</sup> /μL
3101	60.3	729	14.8	42.7	58.6	20.3	34.7	11.4	117.3	166.0	7.5
3102	51.7	710	14.3	40.7	57.3	20.1	35.1	11.1	126.7	171.9	6.8
3103	41.0	714	14.0	39.9	55.9	19.6	35.1	11.2	105.2	157.4	4.8
3104	51.0	747	14.7	42.2	56.5	19.7	34.8	11.1	135.2	181.6	13.0
3105	66.0	786	15.0	43.0	54.7	19.0	34.8	10.5	106.0	114.7	8.2
n	5	5	5	5	5	5	5	5	5	5	5
Mean	54.0	737	14.6	41.7	56.6	19.7	34.9	11.1	118.1	158.3	8.1
S.D.	9.6	31	0.4	1.3	1.5	0.5	0.2	0.3	13.0	25.9	3.0

	LYMP	MONO	EOS	BASO	LUC
Animal No.	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL
3101	50.6	0.9	0.8	0.0	0.4
3102	43.4	0.5	0.6	0.1	0.3
3103	34.7	0.5	0.5	0.1	0.4
3104	36.1	0.7	0.9	0.0	0.2
3105	55.9	0.9	0.5	0.1	0.3
n	5	5	5	5	5
Mean	44.1	0.7	0.7	0.1	0.3
S.D.	9.1	0.2	0.2	0.1	0.1

Hematology  
Sex : FemaleStage : End of dosing  
Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

	WBC	RBC	HGB	HCT	MCV	MCH	MCHC	RDW	PLT	Retic	NEUT
Animal No.	10 <sup>2</sup> /μL	10 <sup>6</sup> /μL	g/dL	%	fL	pg	g/dL	%	10 <sup>9</sup> /μL	10 <sup>9</sup> /L	10 <sup>2</sup> /μL
4101	72.4	764	15.2	43.2	56.5	19.9	35.3	11.0	107.5	143.0	7.6
4102	34.8	749	14.8	42.2	56.3	19.7	35.0	10.9	109.3	184.4	6.9
4103	77.7	700	14.2	39.5	56.4	20.3	36.0	10.7	111.9	122.6	27.5
4104	60.4	740	14.6	40.5	54.7	19.8	36.2	11.3	116.8	132.8	7.2
4105	52.6	725	14.8	41.6	57.4	20.4	35.5	10.9	132.3	110.4	8.6
n	5	5	5	5	5	5	5	5	5	5	5
Mean	59.6	736	14.7	41.4	56.3	20.0	35.6	11.0	115.6	138.6	11.6
S.D.	17.0	24	0.4	1.4	1.0	0.3	0.5	0.2	10.0	28.3	8.9

	LYMP	MONO	EOS	BASO	LUC
Animal No.	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL
4101	60.9	1.7	1.1	0.1	0.9
4102	26.5	0.5	0.6	0.0	0.3
4103	46.8	2.0	0.7	0.1	0.7
4104	50.2	1.3	1.2	0.1	0.5
4105	41.1	1.1	1.5	0.1	0.3
n	5	5	5	5	5
Mean	45.1	1.3	1.0	0.1	0.5
S.D.	12.7	0.6	0.4	0.0	0.3

Hematology  
Sex : FemaleStage : End of recovery  
Dose : 2-Methylhexane 0 mg/kg

Species : Rat

	WBC	RBC	HGB	HCT	MCV	MCH	MCHC	RDW	PLT	Retic	NEUT
Animal No.	10 <sup>2</sup> /μL	10 <sup>6</sup> /μL	g/dL	%	fL	pg	g/dL	%	10 <sup>9</sup> /μL	10 <sup>9</sup> /L	10 <sup>2</sup> /μL
1106	66.6	756	14.8	41.1	54.3	19.6	36.0	10.8	97.7	159.0	9.8
1107	111.0	782	14.8	41.5	53.0	19.0	35.8	11.3	107.8	129.3	5.9
1108	92.6	780	14.9	42.0	53.8	19.1	35.4	11.7	104.3	223.9	15.4
1109	51.5	726	14.5	42.0	57.8	20.0	34.6	11.5	113.5	171.1	6.0
1110	68.9	782	14.6	42.1	53.8	18.6	34.6	11.1	105.5	212.4	7.1
n	5	5	5	5	5	5	5	5	5	5	5
Mean	78.1	765	14.7	41.7	54.5	19.3	35.3	11.3	105.8	179.1	8.8
S.D.	23.5	25	0.2	0.4	1.9	0.5	0.7	0.3	5.7	38.9	4.0

	LYMP	MONO	EOS	BASO	LUC
Animal No.	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL
1106	53.6	1.8	0.7	0.0	0.6
1107	100.1	2.5	0.8	0.2	1.4
1108	73.1	2.0	1.3	0.2	0.5
1109	42.6	1.5	0.7	0.0	0.7
1110	58.1	1.4	1.6	0.1	0.6
n	5	5	5	5	5
Mean	65.5	1.8	1.0	0.1	0.8
S.D.	22.2	0.4	0.4	0.1	0.4

Hematology  
Sex : FemaleStage : End of recovery  
Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

	WBC	RBC	HGB	HCT	MCV	MCH	MCHC	RDW	PLT	Retic	NEUT
Animal No.	10 <sup>2</sup> /μL	10 <sup>6</sup> /μL	g/dL	%	fL	pg	g/dL	%	10 <sup>9</sup> /μL	10 <sup>9</sup> /L	10 <sup>2</sup> /μL
4106	105.6	823	15.4	43.1	52.4	18.7	35.7	10.8	135.4	150.5	7.8
4107	70.0	794	14.5	41.3	52.0	18.2	35.0	11.2	129.6	133.8	7.1
4108	35.2	762	14.7	41.7	54.8	19.3	35.3	11.3	105.0	188.6	5.1
4109	38.3	756	14.7	42.3	56.0	19.4	34.7	12.0	102.6	218.1	5.7
4110	51.8	741	14.9	40.9	55.1	20.0	36.4	10.9	104.7	104.8	7.2
n	5	5	5	5	5	5	5	5	5	5	5
Mean	60.2	775	14.8	41.9	54.1	19.1	35.4	11.2	115.5	159.2	6.6
S.D.	28.9	33	0.3	0.9	1.8	0.7	0.7	0.5	15.7	44.8	1.1

	LYMP	MONO	EOS	BASO	LUC
Animal No.	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL	10 <sup>2</sup> /μL
4106	91.3	3.7	1.3	0.2	1.3
4107	60.0	1.3	1.0	0.2	0.5
4108	27.7	1.6	0.5	0.0	0.2
4109	31.2	0.5	0.6	0.0	0.2
4110	41.6	1.7	1.0	0.1	0.3
n	5	5	5	5	5
Mean	50.4	1.8	0.9	0.1	0.5
S.D.	26.1	1.2	0.3	0.1	0.5

Appendix 7 - 1

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Coagulation tests

Stage : End of dosing

Sex : Male

Dose : 2-Methylhexane 0 mg/kg

Species : Rat

	PT	APTT	FIB
Animal No.	s	s	mg/dL
1001	9.6	15.6	391
1002	9.3	16.9	362
1003	11.4	17.3	364
1004	10.4	16.7	384
1005	11.8	19.0	403
n	5	5	5
Mean	10.5	17.1	381
S.D.	1.1	1.2	18

Appendix 7 - 2

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Coagulation tests

Stage : End of dosing

Sex : Male

Dose : 2-Methylhexane 100 mg/kg

Species : Rat

	PT	APTT	FIB
Animal No.	s	s	mg/dL
2001	9.9	17.3	329
2002	11.7	18.3	358
2003	10.6	15.2	391
2004	10.6	15.9	417
2005	14.4	18.0	373
n	5	5	5
Mean	11.4	16.9	374
S.D.	1.8	1.3	33

Appendix 7 - 3

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Coagulation tests

Stage : End of dosing

Sex : Male

Dose : 2-Methylhexane 300 mg/kg

Species : Rat

	PT	APTT	FIB
Animal No.	s	s	mg/dL
3001	10.7	16.8	367
3002	11.7	18.4	397
3003	9.1	15.1	381
3004	10.1	17.0	350
3005	10.9	16.9	418
n	5	5	5
Mean	10.5	16.8	383
S.D.	1.0	1.2	26

Appendix 7 - 4

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Coagulation tests

Stage : End of dosing

Sex : Male

Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

	PT	APTT	FIB
Animal No.	s	s	mg/dL
4001	10.5	16.6	434
4002	11.5	18.7	440
4003	10.7	17.4	378
4004	9.6	15.2	403
4005	12.1	18.3	371
n	5	5	5
Mean	10.9	17.2	405
S.D.	1.0	1.4	31



Appendix 7 - 5

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Coagulation tests

Stage : End of recovery

Sex : Male

Dose : 2-Methylhexane 0 mg/kg

Species : Rat

	PT	APTT	FIB
Animal No.	s	s	mg/dL
1006	18.9	21.4	415
1007	10.1	15.7	376
1008	9.9	17.3	370
1009	9.5	17.7	399
1010	11.2	17.1	414
n	5	5	5
Mean	11.9	17.8	395
S.D.	4.0	2.1	21

Coagulation tests

Stage : End of recovery

Sex : Male

Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

	PT	APTT	FIB
Animal No.	s	s	mg/dL
4006	10.5	15.7	432
4007	11.4	18.9	425
4008	10.9	17.3	401
4009	9.9	16.0	375
4010	10.4	16.7	383
n	5	5	5
Mean	10.6	16.9	403
S.D.	0.6	1.3	25

Appendix 7 - 7

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Coagulation tests

Stage : End of dosing

Sex : Female

Dose : 2-Methylhexane 0 mg/kg

Species : Rat

	PT	APTT	FIB
Animal No.	s	s	mg/dL
1101	8.5	12.8	290
1102	8.5	12.3	307
1103	8.1	13.7	284
1104	9.0	14.7	302
1105	8.3	15.7	268
n	5	5	5
Mean	8.5	13.8	290
S.D.	0.3	1.4	15

Appendix 7 - 8

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Coagulation tests

Stage : End of dosing

Sex : Female

Dose : 2-Methylhexane 100 mg/kg

Species : Rat

	PT	APTT	FIB
Animal No.	s	s	mg/dL
2101	8.9	16.4	323
2102	9.0	13.7	285
2103	8.9	13.0	296
2104	9.1	14.9	269
2105	9.2	11.2	311
n	5	5	5
Mean	9.0	13.8	297
S.D.	0.1	2.0	21

Appendix 7 - 9

2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Study No. : B-9244

Coagulation tests

Stage : End of dosing

Sex : Female

Dose : 2-Methylhexane 300 mg/kg

Species : Rat

	PT	APTT	FIB
Animal No.	s	s	mg/dL
3101	8.6	14.9	268
3102	8.6	16.6	320
3103	8.9	13.2	299
3104	8.9	15.3	293
3105	8.3	15.4	268
n	5	5	5
Mean	8.7	15.1	290
S.D.	0.3	1.2	22

Coagulation tests

Stage : End of dosing

Sex : Female

Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

	PT	APTT	FIB
Animal No.	s	s	mg/dL
4101	8.4	14.9	307
4102	9.3	13.9	308
4103	8.8	14.1	317
4104	9.0	15.5	326
4105	8.5	13.3	284
n	5	5	5
Mean	8.8	14.3	308
S.D.	0.4	0.9	16

Coagulation tests

Stage : End of recovery

Sex : Female

Dose : 2-Methylhexane 0 mg/kg

Species : Rat

	PT	APTT	FIB
Animal No.	s	s	mg/dL
1106	8.6	15.0	229
1107	9.2	14.9	251
1108	9.7	13.0	322
1109	9.6	15.6	254
1110	8.8	10.3	291
n	5	5	5
Mean	9.2	13.8	269
S.D.	0.5	2.2	37

Coagulation tests

Stage : End of recovery

Sex : Female

Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

	PT	APTT	FIB
Animal No.	s	s	mg/dL
4106	8.9	14.9	269
4107	8.9	12.5	283
4108	8.3	11.9	275
4109	8.8	15.6	294
4110	9.4	16.0	250
n	5	5	5
Mean	8.9	14.2	274
S.D.	0.4	1.9	16



Blood chemistry

Stage : End of dosing

Dose : 2-Methylhexane 0 mg/kg

Sex : Male

Species : Rat

	AST	ALT	LDH	ALP	r-GTP	T-CHO	TG	PL	T-BIL	GLU	BUN
Animal No.	IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL
1001	55	39	40	807	0	82	83	134	0.1	163	20
1002	55	27	46	534	0	66	76	111	0.1	121	16
1003	57	29	46	491	0	49	36	83	0.1	108	9
1004	60	34	46	394	0	73	73	118	0.1	123	11
1005	55	44	41	540	0	67	119	119	0.1	147	22
n	5	5	5	5	5	5	5	5	5	5	5
Mean	56	35	44	553	0	67	77	113	0.1	132	16
S.D.	2	7	3	153	0	12	30	19	0.0	22	6

	CRNN	Na	K	Cl	Ca	P	TP	ALB	A/G	T-BA
Animal No.	mg/dL	mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL		µmol/L
1001	0.30	144	4.3	105	10.9	9.0	6.4	3.6	1.3	54.2
1002	0.24	146	3.3	104	11.1	7.1	6.2	3.3	1.1	26.0
1003	0.21	146	3.5	106	10.5	7.2	5.8	3.3	1.3	15.8
1004	0.25	144	3.5	104	11.0	8.0	6.2	3.4	1.2	21.8
1005	0.26	144	4.0	105	11.2	8.2	6.3	3.6	1.3	33.4
n	5	5	5	5	5	5	5	5	5	5
Mean	0.25	145	3.7	105	10.9	7.9	6.2	3.4	1.2	30.2
S.D.	0.03	1	0.4	1	0.3	0.8	0.2	0.2	0.1	14.8

Blood chemistry

Stage : End of dosing

Dose : 2-Methylhexane 100 mg/kg

Species : Rat

Sex : Male

	AST	ALT	LDH	ALP	r-GTP	T-CHO	TG	PL	T-BIL	GLU	BUN
Animal No.	IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL
2001	79	38	84	605	0	74	72	120	0.1	157	13
2002	64	35	43	649	0	57	41	101	0.1	115	17
2003	66	38	48	922	0	65	75	108	0.1	118	14
2004	55	28	32	747	0	63	31	97	0.1	113	13
2005	56	31	41	548	0	70	64	114	0.1	114	10
n	5	5	5	5	5	5	5	5	5	5	5
Mean	64	34	50	694	0	66	57	108	0.1	123	13
S.D.	10	4	20	147	0	7	20	9	0.0	19	3

	CRNN	Na	K	Cl	Ca	P	TP	ALB	A/G	T-BA
Animal No.	mg/dL	mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL		µmol/L
2001	0.24	144	4.0	105	10.7	6.9	6.0	3.4	1.3	49.8
2002	0.28	145	3.5	104	10.6	8.0	6.6	3.7	1.3	26.0
2003	0.27	145	3.6	105	11.1	8.3	6.2	3.5	1.3	49.1
2004	0.20	144	3.4	104	11.3	7.9	6.3	3.4	1.2	30.4
2005	0.24	146	3.4	105	10.7	7.0	6.3	3.5	1.3	20.1
n	5	5	5	5	5	5	5	5	5	5
Mean	0.25	145	3.6	105	10.9	7.6	6.3	3.5	1.3	35.1
S.D.	0.03	1	0.2	1	0.3	0.6	0.2	0.1	0.0	13.6

Blood chemistry

Stage : End of dosing

Dose : 2-Methylhexane 300 mg/kg

Species : Rat

Sex : Male

	AST	ALT	LDH	ALP	r-GTP	T-CHO	TG	PL	T-BIL	GLU	BUN
Animal No.	IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL
3001	71	43	48	651	0	62	63	104	0.1	117	19
3002	54	27	34	680	0	54	54	90	0.0	127	17
3003	54	31	36	580	0	84	40	115	0.1	134	14
3004	57	33	42	586	0	62	76	103	0.0	117	19
3005	58	21	34	793	0	62	58	98	0.0	102	13
n	5	5	5	5	5	5	5	5	5	5	5
Mean	59	31	39	658	0	65	58	102	0.0	119	16
S.D.	7	8	6	87	0	11	13	9	0.1	12	3

	CRNN	Na	K	Cl	Ca	P	TP	ALB	A/G	T-BA
Animal No.	mg/dL	mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL		µmol/L
3001	0.31	145	3.6	104	11.1	7.6	6.3	3.5	1.3	45.1
3002	0.27	146	3.8	104	10.5	7.6	6.1	3.5	1.3	15.3
3003	0.31	145	3.6	105	10.5	7.5	6.2	3.3	1.1	7.1
3004	0.29	144	3.9	104	10.7	7.5	6.0	3.4	1.3	29.2
3005	0.22	147	3.6	106	11.1	7.9	6.2	3.3	1.1	5.5
n	5	5	5	5	5	5	5	5	5	5
Mean	0.28	145	3.7	105	10.8	7.6	6.2	3.4	1.2	20.4
S.D.	0.04	1	0.1	1	0.3	0.2	0.1	0.1	0.1	16.7

Blood chemistry

Stage : End of dosing

Sex : Male

Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

	AST	ALT	LDH	ALP	r-GTP	T-CHO	TG	PL	T-BIL	GLU	BUN
Animal No.	IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL
4001	53	31	47	574	0	99	35	132	0.1	97	14
4002	58	39	59	572	0	67	35	105	0.0	105	20
4003	82	47	74	601	0	76	10	118	0.1	101	14
4004	54	26	47	493	0	90	30	126	0.1	94	12
4005	72	40	43	606	0	62	11	95	0.1	85	14
n	5	5	5	5	5	5	5	5	5	5	5
Mean	64	37	54	569	0	79	24	115	0.1	96	15
S.D.	13	8	13	45	0	16	13	15	0.0	8	3

	CRNN	Na	K	Cl	Ca	P	TP	ALB	A/G	T-BA
Animal No.	mg/dL	mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL		µmol/L
4001	0.24	146	3.4	104	11.3	7.8	6.5	3.5	1.2	43.4
4002	0.27	146	3.5	103	11.3	7.6	6.8	3.5	1.1	19.2
4003	0.26	145	3.5	104	11.4	6.8	6.8	3.6	1.1	101.7
4004	0.22	145	3.6	103	11.6	7.2	6.8	3.5	1.1	43.7
4005	0.24	145	3.5	103	11.9	7.7	6.6	3.6	1.2	28.9
n	5	5	5	5	5	5	5	5	5	5
Mean	0.25	145	3.5	103	11.5	7.4	6.7	3.5	1.1	47.4
S.D.	0.02	1	0.1	1	0.3	0.4	0.1	0.1	0.1	32.1

Blood chemistry

Stage : End of recovery

Sex : Male

Dose : 2-Methylhexane 0 mg/kg

Species : Rat

	AST	ALT	LDH	ALP	r-GTP	T-CHO	TG	PL	T-BIL	GLU	BUN
Animal No.	IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL
1006	63	36	49	348	0	57	51	95	0.1	150	23
1007	61	35	39	664	0	78	147	150	0.1	175	17
1008	60	36	41	483	0	83	68	136	0.1	138	20
1009	54	34	35	611	0	55	58	101	0.1	150	16
1010	63	37	43	563	0	65	30	101	0.1	142	22
n	5	5	5	5	5	5	5	5	5	5	5
Mean	60	36	41	534	0	68	71	117	0.1	151	20
S.D.	4	1	5	123	0	12	45	25	0.0	14	3

	CRNN	Na	K	Cl	Ca	P	TP	ALB	A/G	T-BA
Animal No.	mg/dL	mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL		µmol/L
1006	0.30	145	4.2	105	9.9	7.2	6.1	3.2	1.1	15.4
1007	0.22	144	3.8	106	10.7	6.8	6.1	3.3	1.2	7.7
1008	0.31	145	3.6	106	10.8	7.0	6.5	3.4	1.1	29.9
1009	0.22	146	3.7	103	11.0	7.0	6.2	3.2	1.1	40.2
1010	0.24	146	4.0	106	10.4	7.4	6.2	3.2	1.1	13.9
n	5	5	5	5	5	5	5	5	5	5
Mean	0.26	145	3.9	105	10.6	7.1	6.2	3.3	1.1	21.4
S.D.	0.04	1	0.2	1	0.4	0.2	0.2	0.1	0.0	13.3

Blood chemistry

Stage : End of recovery

Sex : Male

Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

	AST	ALT	LDH	ALP	r-GTP	T-CHO	TG	PL	T-BIL	GLU	BUN
Animal No.	IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL
4006	61	31	45	653	0	79	52	123	0.1	136	18
4007	58	41	49	465	0	104	51	159	0.1	163	20
4008	55	32	42	446	0	78	124	151	0.1	132	22
4009	62	34	32	415	0	72	63	113	0.0	152	24
4010	56	27	29	500	0	66	60	114	0.1	130	19
n	5	5	5	5	5	5	5	5	5	5	5
Mean	58	33	39	496	0	80	70	132	0.1	143	21
S.D.	3	5	9	93	0	14	31	22	0.0	14	2

	CRNN	Na	K	Cl	Ca	P	TP	ALB	A/G	T-BA
Animal No.	mg/dL	mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL		µmol/L
4006	0.28	144	3.7	108	11.0	7.3	6.2	3.3	1.1	26.2
4007	0.24	144	3.8	107	11.0	7.3	6.9	3.5	1.0	17.6
4008	0.24	144	3.8	105	11.0	8.1	6.7	3.5	1.1	18.6
4009	0.28	147	3.9	107	10.9	7.5	6.3	3.2	1.0	10.7
4010	0.23	145	3.5	107	10.8	7.2	6.3	3.1	1.0	19.3
n	5	5	5	5	5	5	5	5	5	5
Mean	0.25	145	3.7	107	10.9	7.5	6.5	3.3	1.0	18.5
S.D.	0.02	1	0.2	1	0.1	0.4	0.3	0.2	0.1	5.5

Blood chemistry

Stage : End of dosing

Sex : Female Dose : 2-Methylhexane 0 mg/kg

Species : Rat

	AST	ALT	LDH	ALP	r-GTP	T-CHO	TG	PL	T-BIL	GLU	BUN
Animal No.	IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL
1101	74	35	50	597	0	45	8	82	0.1	117	17
1102	70	43	38	404	0	57	13	112	0.1	112	18
1103	73	26	54	706	0	77	20	148	0.1	94	10
1104	60	30	43	588	1	61	13	114	0.1	110	12
1105	53	24	42	489	0	61	18	120	0.1	117	16
n	5	5	5	5	5	5	5	5	5	5	5
Mean	66	32	45	557	0	60	14	115	0.1	110	15
S.D.	9	8	6	115	0	11	5	24	0.0	9	3

	CRNN	Na	K	Cl	Ca	P	TP	ALB	A/G	T-BA
Animal No.	mg/dL	mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL		µmol/L
1101	0.34	142	3.3	104	9.7	5.1	5.6	3.2	1.3	17.8
1102	0.33	141	3.2	106	10.1	5.4	6.1	3.6	1.4	20.5
1103	0.26	144	3.2	108	10.3	5.1	6.2	3.6	1.4	25.1
1104	0.28	145	3.1	110	10.2	5.3	6.2	3.6	1.4	28.4
1105	0.30	145	3.2	107	10.2	6.5	6.3	3.6	1.3	26.3
n	5	5	5	5	5	5	5	5	5	5
Mean	0.30	143	3.2	107	10.1	5.5	6.1	3.5	1.4	23.6
S.D.	0.03	2	0.1	2	0.2	0.6	0.3	0.2	0.1	4.4

Blood chemistry

Stage : End of dosing

Dose : 2-Methylhexane 100 mg/kg

Species : Rat

	AST	ALT	LDH	ALP	r-GTP	T-CHO	TG	PL	T-BIL	GLU	BUN
Animal No.	IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL
2101	65	36	40	370	0	65	8	118	0.0	104	16
2102	66	31	36	299	0	65	19	120	0.1	123	13
2103	69	33	47	436	0	62	14	110	0.1	109	11
2104	73	40	42	335	0	65	18	120	0.1	120	10
2105	56	25	35	358	0	48	14	93	0.1	94	10
n	5	5	5	5	5	5	5	5	5	5	5
Mean	66	33	40	360	0	61	15	112	0.1	110	12
S.D.	6	6	5	51	0	7	4	11	0.0	12	3

	CRNN	Na	K	Cl	Ca	P	TP	ALB	A/G	T-BA
Animal No.	mg/dL	mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL		µmol/L
2101	0.31	141	3.4	104	10.2	6.2	6.0	3.3	1.2	20.0
2102	0.26	143	3.7	107	9.9	5.3	5.8	3.5	1.5	29.2
2103	0.29	142	3.5	107	10.2	5.6	6.0	3.3	1.2	23.5
2104	0.25	141	3.5	104	10.0	4.8	5.7	3.3	1.4	53.9
2105	0.27	143	3.3	107	10.5	6.4	6.2	3.6	1.4	19.6
n	5	5	5	5	5	5	5	5	5	5
Mean	0.28	142	3.5	106	10.2	5.7	5.9	3.4	1.3	29.2
S.D.	0.02	1	0.1	2	0.2	0.7	0.2	0.1	0.1	14.3



Blood chemistry

Stage : End of dosing

Dose : 2-Methylhexane 300 mg/kg

Species : Rat

Sex : Female

	AST	ALT	LDH	ALP	r-GTP	T-CHO	TG	PL	T-BIL	GLU	BUN
Animal No.	IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL
3101	60	33	46	453	0	60	11	109	0.1	117	16
3102	59	20	38	402	0	71	10	129	0.1	110	14
3103	70	47	48	361	0	53	12	103	0.1	112	16
3104	68	34	40	721	0	57	10	104	0.1	118	11
3105	66	36	39	407	0	78	16	139	0.1	118	15
n	5	5	5	5	5	5	5	5	5	5	5
Mean	65	34	42	469	0	64	12	117	0.1	115	14
S.D.	5	10	4	145	0	10	2	16	0.0	4	2

	CRNN	Na	K	Cl	Ca	P	TP	ALB	A/G	T-BA
Animal No.	mg/dL	mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL		µmol/L
3101	0.31	144	3.1	105	10.3	4.9	6.0	3.7	1.6	42.2
3102	0.33	141	3.3	106	10.1	5.3	6.1	3.5	1.3	19.9
3103	0.30	143	3.6	107	10.3	5.8	6.0	3.5	1.4	21.7
3104	0.29	144	3.2	107	10.3	6.4	5.9	3.5	1.5	40.4
3105	0.30	145	3.4	108	10.6	7.9	6.6	3.8	1.4	27.4
n	5	5	5	5	5	5	5	5	5	5
Mean	0.31	143	3.3	107	10.3	6.1	6.1	3.6	1.4	30.3
S.D.	0.02	2	0.2	1	0.2	1.2	0.3	0.1	0.1	10.4

Blood chemistry

Stage : End of dosing

Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

Sex : Female

	AST	ALT	LDH	ALP	r-GTP	T-CHO	TG	PL	T-BIL	GLU	BUN
Animal No.	IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL
4101	61	25	40	306	0	99	10	166	0.1	104	13
4102	62	26	37	503	1	78	13	124	0.1	134	14
4103	56	24	37	410	1	57	9	111	0.1	101	14
4104	68	34	41	541	0	68	8	121	0.1	108	16
4105	55	25	33	315	0	50	16	95	0.1	106	13
n	5	5	5	5	5	5	5	5	5	5	5
Mean	60	27	38	415	0	70	11	123	0.1	111	14
S.D.	5	4	3	107	1	19	3	26	0.0	13	1

	CRNN	Na	K	Cl	Ca	P	TP	ALB	A/G	T-BA
Animal No.	mg/dL	mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL		μmol/L
4101	0.30	142	3.5	106	10.5	5.2	6.6	3.7	1.3	14.6
4102	0.28	143	3.3	109	9.9	4.8	6.2	3.4	1.2	9.7
4103	0.30	143	3.6	107	10.6	5.7	6.3	3.6	1.3	16.6
4104	0.31	142	3.5	106	10.2	6.2	6.3	3.4	1.2	18.9
4105	0.29	142	3.8	105	10.1	5.9	6.0	3.4	1.3	12.6
n	5	5	5	5	5	5	5	5	5	5
Mean	0.30	142	3.5	107	10.3	5.6	6.3	3.5	1.3	14.5
S.D.	0.01	1	0.2	2	0.3	0.6	0.2	0.1	0.1	3.6

Blood chemistry

Stage : End of recovery

Dose : 2-Methylhexane 0 mg/kg

Species : Rat

Sex : Female

	AST	ALT	LDH	ALP	r-GTP	T-CHO	TG	PL	T-BIL	GLU	BUN
Animal No.	IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL
1106	59	30	46	246	0	61	17	123	0.1	115	22
1107	51	39	40	271	0	72	100	160	0.2	128	28
1108	53	29	43	246	0	58	94	139	0.1	149	20
1109	67	30	35	493	0	67	18	134	0.1	111	21
1110	63	32	30	355	0	66	24	125	0.1	103	20
n	5	5	5	5	5	5	5	5	5	5	5
Mean	59	32	39	322	0	65	51	136	0.1	121	22
S.D.	7	4	6	105	0	5	42	15	0.0	18	3

	CRNN	Na	K	Cl	Ca	P	TP	ALB	A/G	T-BA
Animal No.	mg/dL	mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL		µmol/L
1106	0.40	142	3.4	109	10.3	3.8	6.4	3.7	1.4	43.9
1107	0.33	144	3.5	106	10.4	5.4	6.6	3.8	1.4	43.8
1108	0.31	143	3.6	108	10.6	5.0	6.9	4.0	1.4	18.8
1109	0.37	145	3.5	109	10.4	5.4	6.5	3.8	1.4	30.2
1110	0.30	144	3.6	107	10.4	5.7	6.2	3.4	1.2	21.8
n	5	5	5	5	5	5	5	5	5	5
Mean	0.34	144	3.5	108	10.4	5.1	6.5	3.7	1.4	31.7
S.D.	0.04	1	0.1	1	0.1	0.7	0.3	0.2	0.1	11.9

Blood chemistry

Stage : End of recovery

Sex : Female

Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

	AST	ALT	LDH	ALP	r-GTP	T-CHO	TG	PL	T-BIL	GLU	BUN
Animal No.	IU/L	IU/L	IU/L	IU/L	IU/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL
4106	59	25	44	255	0	93	19	170	0.1	123	20
4107	61	27	46	271	0	70	63	144	0.1	120	13
4108	48	21	36	189	0	95	112	194	0.1	131	15
4109	51	15	30	267	0	90	22	172	0.1	146	13
4110	59	27	35	226	0	69	11	143	0.1	122	17
n	5	5	5	5	5	5	5	5	5	5	5
Mean	56	23	38	242	0	83	45	165	0.1	128	16
S.D.	6	5	7	34	0	13	42	21	0.0	11	3

	CRNN	Na	K	Cl	Ca	P	TP	ALB	A/G	T-BA
Animal No.	mg/dL	mmol/L	mmol/L	mmol/L	mg/dL	mg/dL	g/dL	g/dL		µmol/L
4106	0.33	143	3.4	106	10.5	5.3	6.7	3.9	1.4	26.0
4107	0.30	145	3.2	108	10.4	4.8	6.5	3.6	1.2	41.6
4108	0.32	146	3.2	107	10.8	3.6	7.1	4.3	1.5	33.5
4109	0.31	144	3.6	109	10.3	5.6	6.8	3.8	1.3	10.2
4110	0.35	143	3.6	108	10.5	5.1	6.8	3.9	1.3	25.8
n	5	5	5	5	5	5	5	5	5	5
Mean	0.32	144	3.4	108	10.5	4.9	6.8	3.9	1.3	27.4
S.D.	0.02	1	0.2	1	0.2	0.8	0.2	0.3	0.1	11.6

Organ weight

Stage : End of dosing

Sex : Male

Dose : 2-Methylhexane 0 mg/kg

Species : Rat

Animal No.	Body weight	Brain		Pituitary gland		Thyroid gland -RL		Salivary gland -RL	
	g	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %
1001	393	2.02	0.51	9.4	0.0024	18.8	0.0048	753	0.192
1002	390	2.10	0.54	11.2	0.0029	23.0	0.0059	647	0.166
1003	329	1.95	0.59	11.3	0.0034	20.6	0.0063	645	0.196
1004	366	2.09	0.57	10.1	0.0028	15.5	0.0042	694	0.190
1005	364	2.00	0.55	10.6	0.0029	19.7	0.0054	583	0.160
n	5	5	5	5	5	5	5	5	5
Mean	368	2.03	0.55	10.5	0.0029	19.5	0.0053	664	0.181
S.D.	26	0.06	0.03	0.8	0.0004	2.7	0.0008	63	0.017

Animal No.	Thymus		Heart		Lung		Liver		Spleen	
	AB mg	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g	RE %
1001	513	0.131	1.17	0.30	1.35	0.34	11.57	2.94	0.61	0.16
1002	590	0.151	1.43	0.37	1.45	0.37	11.13	2.85	0.69	0.18
1003	493	0.150	1.14	0.35	1.15	0.35	8.57	2.60	0.51	0.16
1004	478	0.131	1.25	0.34	1.42	0.39	9.97	2.72	0.65	0.18
1005	388	0.107	1.28	0.35	1.28	0.35	10.93	3.00	0.44	0.12
n	5	5	5	5	5	5	5	5	5	5
Mean	492	0.134	1.25	0.34	1.33	0.36	10.43	2.82	0.58	0.16
S.D.	73	0.018	0.11	0.03	0.12	0.02	1.19	0.16	0.10	0.02

Animal No.	Kidney-RL		Adrenal gland -RL		Testis-RL		Prostate		Epididymis-RL	
	AB g	RE %	AB mg	RE %	AB g	RE %	AB g	RE %	AB mg	RE %
1001	2.69	0.68	56	0.014	3.05	0.78	0.81	0.21	912	0.232
1002	2.94	0.75	58	0.015	3.50	0.90	1.02	0.26	977	0.251
1003	2.57	0.78	60	0.018	3.39	1.03	0.90	0.27	995	0.302
1004	2.50	0.68	50	0.014	3.27	0.89	0.88	0.24	871	0.238
1005	2.73	0.75	68	0.019	2.91	0.80	0.71	0.20	884	0.243
n	5	5	5	5	5	5	5	5	5	5
Mean	2.69	0.73	58	0.016	3.22	0.88	0.86	0.24	928	0.253
S.D.	0.17	0.05	7	0.002	0.24	0.10	0.11	0.03	56	0.028

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

Organ weight

Stage : End of dosing

Sex : Male

Dose : 2-Methylhexane 0 mg/kg

Species : Rat

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Seminal vesicle

Animal No.	AB g	RE %
1001	1.21	0.31
1002	1.20	0.31
1003	1.27	0.39
1004	1.00	0.27
1005	1.22	0.34
n	5	5
Mean	1.18	0.32
S.D.	0.10	0.04

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

Organ weight  
Sex : MaleStage : End of dosing  
Dose : 2-Methylhexane 100 mg/kg

Species : Rat

Animal No.	Body weight		Brain		Pituitary gland		Thyroid gland -RL		Salivary gland -RL	
	g	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %	
2001	371	2.05	0.55	8.5	0.0023	15.9	0.0043	544	0.147	
2002	361	1.99	0.55	11.0	0.0030	23.2	0.0064	536	0.148	
2003	352	1.94	0.55	9.1	0.0026	13.0	0.0037	631	0.179	
2004	367	2.04	0.56	12.7	0.0035	19.0	0.0052	693	0.189	
2005	334	1.81	0.54	9.6	0.0029	25.6	0.0077	614	0.184	
n	5	5	5	5	5	5	5	5	5	
Mean	357	1.97	0.55	10.2	0.0029	19.3	0.0055	604	0.169	
S.D.	15	0.10	0.01	1.7	0.0005	5.2	0.0016	65	0.020	

Animal No.	Thymus		Heart		Lung		Liver		Spleen	
	AB mg	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g	RE %
2001	538	0.145	1.26	0.34	1.34	0.36	11.15	3.01	0.59	0.16
2002	443	0.123	1.17	0.32	1.29	0.36	10.22	2.83	0.61	0.17
2003	410	0.116	1.17	0.33	1.26	0.36	9.15	2.60	0.57	0.16
2004	461	0.126	1.16	0.32	1.39	0.38	11.04	3.01	0.74	0.20
2005	364	0.109	1.11	0.33	1.19	0.36	9.45	2.83	0.47	0.14
n	5	5	5	5	5	5	5	5	5	5
Mean	443	0.124	1.17	0.33	1.29	0.36	10.20	2.86	0.60	0.17
S.D.	65	0.014	0.05	0.01	0.08	0.01	0.90	0.17	0.10	0.02

Animal No.	Kidney-RL		Adrenal gland -RL		Testis-RL		Prostate		Epididymis-RL	
	AB g	RE %	AB mg	RE %	AB g	RE %	AB g	RE %	AB mg	RE %
2001	2.86	0.77	45	0.012	2.79	0.75	0.74	0.20	953	0.257
2002	2.98	0.83	58	0.016	2.94	0.81	0.87	0.24	885	0.245
2003	2.63	0.75	52	0.015	2.92	0.83	0.74	0.21	882	0.251
2004	3.24	0.88	65	0.018	3.22	0.88	1.00	0.27	988	0.269
2005	2.51	0.75	57	0.017	3.26	0.98	0.66	0.20	867	0.260
n	5	5	5	5	5	5	5	5	5	5
Mean	2.84	0.80	55	0.016	3.03	0.85	0.80	0.22	915	0.256
S.D.	0.29	0.06	7	0.002	0.20	0.09	0.13	0.03	53	0.009

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

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Seminal vesicle

Animal No.	AB g	RE %
2001	1.11	0.30
2002	1.16	0.32
2003	1.37	0.39
2004	1.37	0.37
2005	0.94	0.28
n	5	5
Mean	1.19	0.33
S.D.	0.18	0.05

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



Organ weight

Stage : End of dosing

Sex : Male

Dose : 2-Methylhexane 300 mg/kg

Species : Rat

Animal No.	Body weight		Brain		Pituitary gland		Thyroid gland -RL		Salivary gland -RL	
	g	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %	
3001	385	1.97	0.51	11.1	0.0029	16.5	0.0043	637	0.165	
3002	350	2.10	0.60	12.9	0.0037	13.5	0.0039	659	0.188	
3003	360	2.01	0.56	10.8	0.0030	19.3	0.0054	664	0.184	
3004	389	2.13	0.55	11.3	0.0029	25.4	0.0065	637	0.164	
3005	361	1.90	0.53	10.7	0.0030	16.8	0.0047	667	0.185	
n	5	5	5	5	5	5	5	5	5	
Mean	369	2.02	0.55	11.4	0.0031	18.3	0.0050	653	0.177	
S.D.	17	0.09	0.03	0.9	0.0003	4.5	0.0010	15	0.012	

Animal No.	Thymus		Heart		Lung		Liver		Spleen	
	AB mg	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g	RE %
3001	582	0.151	1.42	0.37	1.32	0.34	11.33	2.94	0.54	0.14
3002	335	0.096	1.23	0.35	1.35	0.39	10.79	3.08	0.58	0.17
3003	447	0.124	1.18	0.33	1.28	0.36	10.89	3.03	0.53	0.15
3004	612	0.157	1.24	0.32	1.49	0.38	12.00	3.08	0.70	0.18
3005	402	0.111	1.21	0.34	1.29	0.36	11.39	3.16	0.59	0.16
n	5	5	5	5	5	5	5	5	5	5
Mean	476	0.128	1.26	0.34	1.35	0.37	11.28	3.06	0.59	0.16
S.D.	118	0.026	0.09	0.02	0.09	0.02	0.48	0.08	0.07	0.02

Animal No.	Kidney-RL		Adrenal gland -RL		Testis-RL		Prostate		Epididymis-RL	
	AB g	RE %	AB mg	RE %	AB g	RE %	AB g	RE %	AB mg	RE %
3001	2.95	0.77	74	0.019	2.96	0.77	1.00	0.26	881	0.229
3002	3.29	0.94	69	0.020	3.22	0.92	1.09	0.31	947	0.271
3003	2.54	0.71	68	0.019	3.44	0.96	0.70	0.19	927	0.258
3004	3.00	0.77	56	0.014	3.10	0.80	0.91	0.23	933	0.240
3005	3.32	0.92	62	0.017	3.27	0.91	1.07	0.30	984	0.273
n	5	5	5	5	5	5	5	5	5	5
Mean	3.02	0.82	66	0.018	3.20	0.87	0.95	0.26	934	0.254
S.D.	0.32	0.10	7	0.002	0.18	0.08	0.16	0.05	37	0.019

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

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Seminal vesicle

Animal No.	AB g	RE %
3001	1.15	0.30
3002	1.24	0.35
3003	1.10	0.31
3004	1.26	0.32
3005	1.19	0.33
n	5	5
Mean	1.19	0.32
S.D.	0.07	0.02

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

Organ weight

Stage : End of dosing

Sex : Male

Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

Animal No.	Body weight		Brain		Pituitary gland		Thyroid gland -RL		Salivary gland -RL	
	g	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %	
4001	361	1.98	0.55	12.2	0.0034	26.3	0.0073	606	0.168	
4002	361	2.07	0.57	11.2	0.0031	20.5	0.0057	589	0.163	
4003	347	2.18	0.63	9.9	0.0029	22.6	0.0065	589	0.170	
4004	398	2.08	0.52	11.7	0.0029	29.0	0.0073	584	0.147	
4005	328	1.94	0.59	9.1	0.0028	15.3	0.0047	581	0.177	
n	5	5	5	5	5	5	5	5	5	
Mean	359	2.05	0.57	10.8	0.0030	22.7	0.0063	590	0.165	
S.D.	26	0.09	0.04	1.3	0.0002	5.3	0.0011	10	0.011	

Animal No.	Thymus		Heart		Lung		Liver		Spleen	
	AB mg	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g	RE %
4001	647	0.179	1.23	0.34	1.22	0.34	13.67	3.79	0.60	0.17
4002	284	0.079	1.24	0.34	1.27	0.35	13.99	3.88	0.53	0.15
4003	362	0.104	1.19	0.34	1.33	0.38	15.37	4.43	0.75	0.22
4004	650	0.163	1.35	0.34	1.48	0.37	16.60	4.17	0.81	0.20
4005	334	0.102	1.13	0.34	1.20	0.37	11.67	3.56	0.58	0.18
n	5	5	5	5	5	5	5	5	5	5
Mean	455	0.125	1.23	0.34	1.30	0.36	14.26	3.97	0.65	0.18
S.D.	178	0.043	0.08	0.00	0.11	0.02	1.86	0.34	0.12	0.03

Animal No.	Kidney-RL		Adrenal gland -RL		Testis-RL		Prostate		Epididymis-RL	
	AB g	RE %	AB mg	RE %	AB g	RE %	AB g	RE %	AB mg	RE %
4001	3.18	0.88	58	0.016	2.94	0.81	0.67	0.19	829	0.230
4002	4.05	1.12	56	0.016	3.31	0.92	0.83	0.23	880	0.244
4003	3.13	0.90	67	0.019	2.88	0.83	0.81	0.23	824	0.237
4004	3.88	0.97	52	0.013	3.14	0.79	0.80	0.20	871	0.219
4005	2.96	0.90	44	0.013	3.15	0.96	0.91	0.28	820	0.250
n	5	5	5	5	5	5	5	5	5	5
Mean	3.44	0.95	55	0.015	3.08	0.86	0.80	0.23	845	0.236
S.D.	0.49	0.10	8	0.003	0.17	0.07	0.09	0.04	28	0.012

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

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Seminal vesicle

Animal No.	AB g	RE %
4001	0.88	0.24
4002	1.06	0.29
4003	1.10	0.32
4004	1.08	0.27
4005	1.10	0.34
n	5	5
Mean	1.04	0.29
S.D.	0.09	0.04

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

Organ weight

Stage : End of recovery

Sex : Male

Dose : 2-Methylhexane 0 mg/kg

Species : Rat

Animal No.	Body weight		Brain		Pituitary gland		Thyroid gland -RL		Salivary gland -RL	
	g	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %	
1006	435	2.12	0.49	12.6	0.0029	23.6	0.0054	796	0.183	
1007	494	2.36	0.48	11.6	0.0023	24.6	0.0050	956	0.194	
1008	418	2.20	0.53	11.5	0.0028	24.0	0.0057	795	0.190	
1009	455	2.15	0.47	13.0	0.0029	26.8	0.0059	775	0.170	
1010	413	2.03	0.49	9.9	0.0024	19.9	0.0048	720	0.174	
n	5	5	5	5	5	5	5	5	5	
Mean	443	2.17	0.49	11.7	0.0027	23.8	0.0054	808	0.182	
S.D.	33	0.12	0.02	1.2	0.0003	2.5	0.0005	88	0.010	

Animal No.	Thymus		Heart		Lung		Liver		Spleen	
	AB mg	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g	RE %
1006	418	0.096	1.37	0.31	1.54	0.35	11.73	2.70	0.79	0.18
1007	483	0.098	1.46	0.30	1.48	0.30	14.97	3.03	0.79	0.16
1008	440	0.105	1.52	0.36	1.50	0.36	11.81	2.83	0.67	0.16
1009	414	0.091	1.56	0.34	1.60	0.35	13.12	2.88	0.83	0.18
1010	348	0.084	1.32	0.32	1.47	0.36	11.15	2.70	0.75	0.18
n	5	5	5	5	5	5	5	5	5	5
Mean	421	0.095	1.45	0.33	1.52	0.34	12.56	2.83	0.77	0.17
S.D.	49	0.008	0.10	0.02	0.05	0.03	1.53	0.14	0.06	0.01

Animal No.	Kidney-RL		Adrenal gland -RL		Testis-RL		Prostate		Epididymis-RL	
	AB g	RE %	AB mg	RE %	AB g	RE %	AB g	RE %	AB mg	RE %
1006	3.59	0.83	62	0.014	3.25	0.75	1.03	0.24	1177	0.271
1007	3.47	0.70	62	0.013	3.12	0.63	1.21	0.24	1103	0.223
1008	2.62	0.63	57	0.014	3.23	0.77	0.81	0.19	1052	0.252
1009	3.96	0.87	67	0.015	3.99	0.88	1.42	0.31	1270	0.279
1010	3.38	0.82	51	0.012	3.47	0.84	1.05	0.25	1091	0.264
n	5	5	5	5	5	5	5	5	5	5
Mean	3.40	0.77	60	0.014	3.41	0.77	1.10	0.25	1139	0.258
S.D.	0.49	0.10	6	0.001	0.35	0.10	0.23	0.04	86	0.022

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

Organ weight

Stage : End of recovery

Sex : Male

Dose : 2-Methylhexane 0 mg/kg

Species : Rat

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Seminal vesicle

Animal No.	AB g	RE %
1006	1.35	0.31
1007	1.50	0.30
1008	1.32	0.32
1009	1.66	0.36
1010	1.51	0.37
n	5	5
Mean	1.47	0.33
S.D.	0.14	0.03

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

Organ weight

Stage : End of recovery

Sex : Male

Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

Animal No.	Body weight		Brain		Pituitary gland		Thyroid gland -RL		Salivary gland -RL	
	g	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %	
4006	412	2.02	0.49	11.0	0.0027	21.7	0.0053	662	0.161	
4007	410	2.02	0.49	13.0	0.0032	26.6	0.0065	731	0.178	
4008	425	2.18	0.51	13.3	0.0031	21.9	0.0052	749	0.176	
4009	386	2.09	0.54	11.5	0.0030	27.6	0.0072	603	0.156	
4010	412	2.04	0.50	12.9	0.0031	21.5	0.0052	729	0.177	
n	5	5	5	5	5	5	5	5	5	
Mean	409	2.07	0.51	12.3	0.0030	23.9	0.0059	695	0.170	
S.D.	14	0.07	0.02	1.0	0.0002	3.0	0.0009	61	0.010	

Animal No.	Thymus		Heart		Lung		Liver		Spleen	
	AB mg	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g	RE %
4006	395	0.096	1.23	0.30	1.37	0.33	11.95	2.90	0.84	0.20
4007	632	0.154	1.41	0.34	1.48	0.36	14.08	3.43	0.70	0.17
4008	454	0.107	1.55	0.36	1.39	0.33	13.77	3.24	0.92	0.22
4009	352	0.091	1.27	0.33	1.34	0.35	12.57	3.26	0.59	0.15
4010	413	0.100	1.31	0.32	1.45	0.35	13.11	3.18	0.76	0.18
n	5	5	5	5	5	5	5	5	5	5
Mean	449	0.110	1.35	0.33	1.41	0.34	13.10	3.20	0.76	0.18
S.D.	109	0.026	0.13	0.02	0.06	0.01	0.87	0.19	0.13	0.03

Animal No.	Kidney-RL		Adrenal gland -RL		Testis-RL		Prostate		Epididymis-RL	
	AB g	RE %	AB mg	RE %	AB g	RE %	AB g	RE %	AB mg	RE %
4006	2.80	0.68	54	0.013	2.83	0.69	1.26	0.31	952	0.231
4007	3.55	0.87	66	0.016	3.58	0.87	1.02	0.25	1101	0.269
4008	3.49	0.82	72	0.017	3.70	0.87	1.07	0.25	1182	0.278
4009	3.11	0.81	59	0.015	3.11	0.81	0.87	0.23	1009	0.261
4010	3.26	0.79	61	0.015	3.07	0.75	0.94	0.23	1107	0.269
n	5	5	5	5	5	5	5	5	5	5
Mean	3.24	0.79	62	0.015	3.26	0.80	1.03	0.25	1070	0.262
S.D.	0.30	0.07	7	0.001	0.37	0.08	0.15	0.03	90	0.018

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

Organ weight

Stage : End of recovery

Sex : Male

Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

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Seminal vesicle

Animal No.	AB g	RE %
4006	1.45	0.35
4007	1.21	0.30
4008	1.29	0.30
4009	1.22	0.32
4010	1.36	0.33
n	5	5
Mean	1.31	0.32
S.D.	0.10	0.02

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



Organ weight  
Sex : FemaleStage : End of dosing  
Dose : 2-Methylhexane 0 mg/kg

Species : Rat

Animal No.	Body weight		Brain		Pituitary gland		Thyroid gland -RL		Salivary gland -RL	
	g	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %	
1101	218	1.81	0.83	12.0	0.0055	14.7	0.0067	426	0.195	
1102	217	1.78	0.82	9.9	0.0046	12.7	0.0059	432	0.199	
1103	201	2.02	1.00	14.5	0.0072	18.1	0.0090	400	0.199	
1104	206	1.99	0.97	13.7	0.0067	17.5	0.0085	364	0.177	
1105	244	2.00	0.82	15.2	0.0062	22.4	0.0092	441	0.181	
n	5	5	5	5	5	5	5	5	5	
Mean	217	1.92	0.89	13.1	0.0060	17.1	0.0079	413	0.190	
S.D.	17	0.12	0.09	2.1	0.0010	3.7	0.0015	31	0.010	

Animal No.	Thymus		Heart		Lung		Liver		Spleen	
	AB mg	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g	RE %
1101	480	0.220	0.75	0.34	0.98	0.45	5.98	2.74	0.37	0.17
1102	422	0.194	0.73	0.34	1.05	0.48	5.60	2.58	0.42	0.19
1103	486	0.242	0.78	0.39	1.04	0.52	6.02	3.00	0.41	0.20
1104	458	0.222	0.83	0.40	0.98	0.48	6.10	2.96	0.38	0.18
1105	346	0.142	0.87	0.36	1.07	0.44	7.34	3.01	0.49	0.20
n	5	5	5	5	5	5	5	5	5	5
Mean	438	0.204	0.79	0.37	1.02	0.47	6.21	2.86	0.41	0.19
S.D.	57	0.039	0.06	0.03	0.04	0.03	0.66	0.19	0.05	0.01

Animal No.	Kidney-RL		Adrenal gland -RL		Ovary-RL		Uterus	
	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %
1101	1.72	0.79	73	0.033	91.6	0.0420	377	0.1729
1102	1.51	0.70	56	0.026	86.5	0.0399	363	0.1673
1103	1.60	0.80	50	0.025	77.8	0.0387	482	0.2398
1104	1.55	0.75	53	0.026	83.0	0.0403	685	0.3325
1105	2.04	0.84	68	0.028	99.3	0.0407	499	0.2045
n	5	5	5	5	5	5	5	5
Mean	1.68	0.78	60	0.028	87.6	0.0403	481	0.2234
S.D.	0.21	0.05	10	0.003	8.2	0.0012	129	0.0675

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

Organ weight  
Sex : FemaleStage : End of dosing  
Dose : 2-Methylhexane 100 mg/kg

Species : Rat

Animal No.	Body weight		Brain		Pituitary gland		Thyroid gland -RL		Salivary gland -RL	
	g	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %	
2101	237	1.90	0.80	11.2	0.0047	19.3	0.0081	399	0.168	
2102	231	1.84	0.80	13.6	0.0059	12.1	0.0052	447	0.194	
2103	233	1.91	0.82	12.7	0.0055	12.2	0.0052	410	0.176	
2104	241	1.96	0.81	13.3	0.0055	17.1	0.0071	441	0.183	
2105	210	1.94	0.92	11.6	0.0055	17.1	0.0081	392	0.187	
n	5	5	5	5	5	5	5	5	5	
Mean	230	1.91	0.83	12.5	0.0054	15.6	0.0067	418	0.182	
S.D.	12	0.05	0.05	1.0	0.0004	3.2	0.0015	25	0.010	

Animal No.	Thymus		Heart		Lung		Liver		Spleen	
	AB mg	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g	RE %
2101	292	0.123	0.90	0.38	1.07	0.45	6.45	2.72	0.36	0.15
2102	538	0.233	0.85	0.37	1.02	0.44	6.52	2.82	0.44	0.19
2103	398	0.171	0.93	0.40	1.04	0.45	6.70	2.88	0.49	0.21
2104	428	0.178	0.88	0.37	1.06	0.44	6.63	2.75	0.42	0.17
2105	421	0.200	0.80	0.38	1.03	0.49	5.90	2.81	0.53	0.25
n	5	5	5	5	5	5	5	5	5	5
Mean	415	0.181	0.87	0.38	1.04	0.45	6.44	2.80	0.45	0.19
S.D.	88	0.040	0.05	0.01	0.02	0.02	0.32	0.06	0.07	0.04

Animal No.	Kidney-RL		Adrenal gland -RL		Ovary-RL		Uterus	
	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %
2101	1.91	0.81	59	0.025	79.4	0.0335	434	0.1831
2102	1.80	0.78	53	0.023	91.2	0.0395	567	0.2455
2103	1.86	0.80	57	0.024	83.6	0.0359	656	0.2815
2104	2.25	0.93	79	0.033	73.0	0.0303	436	0.1809
2105	1.53	0.73	53	0.025	89.7	0.0427	367	0.1748
n	5	5	5	5	5	5	5	5
Mean	1.87	0.81	60	0.026	83.4	0.0364	492	0.2132
S.D.	0.26	0.07	11	0.004	7.5	0.0049	117	0.0478

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

Organ weight  
Sex : FemaleStage : End of dosing  
Dose : 2-Methylhexane 300 mg/kg

Species : Rat

Animal No.	Body weight		Brain		Pituitary gland		Thyroid gland -RL		Salivary gland -RL	
	g	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %	
3101	231	1.98	0.86	14.4	0.0062	16.3	0.0071	401	0.174	
3102	247	1.80	0.73	13.2	0.0053	15.5	0.0063	467	0.189	
3103	228	1.91	0.84	13.6	0.0060	11.0	0.0048	448	0.196	
3104	214	1.94	0.91	13.3	0.0062	11.6	0.0054	437	0.204	
3105	192	2.03	1.06	13.6	0.0071	18.4	0.0096	447	0.233	
n	5	5	5	5	5	5	5	5	5	
Mean	222	1.93	0.88	13.6	0.0062	14.6	0.0066	440	0.199	
S.D.	21	0.09	0.12	0.5	0.0006	3.2	0.0019	24	0.022	

Animal No.	Thymus		Heart		Lung		Liver		Spleen	
	AB mg	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g	RE %
3101	329	0.142	0.82	0.35	1.08	0.47	6.70	2.90	0.40	0.17
3102	412	0.167	0.83	0.34	1.09	0.44	7.35	2.98	0.47	0.19
3103	379	0.166	0.78	0.34	1.03	0.45	6.20	2.72	0.49	0.21
3104	350	0.164	0.73	0.34	0.98	0.46	6.48	3.03	0.38	0.18
3105	369	0.192	0.75	0.39	0.99	0.52	5.91	3.08	0.40	0.21
n	5	5	5	5	5	5	5	5	5	5
Mean	368	0.166	0.78	0.35	1.03	0.47	6.53	2.94	0.43	0.19
S.D.	31	0.018	0.04	0.02	0.05	0.03	0.55	0.14	0.05	0.02

Animal No.	Kidney-RL		Adrenal gland -RL		Ovary-RL		Uterus	
	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %
3101	1.65	0.71	54	0.023	80.6	0.0349	502	0.2173
3102	1.88	0.76	62	0.025	93.5	0.0379	413	0.1672
3103	1.84	0.81	62	0.027	77.9	0.0342	665	0.2917
3104	1.64	0.77	66	0.031	97.2	0.0454	466	0.2178
3105	1.55	0.81	72	0.038	75.4	0.0393	567	0.2953
n	5	5	5	5	5	5	5	5
Mean	1.71	0.77	63	0.029	84.9	0.0383	523	0.2379
S.D.	0.14	0.04	7	0.006	9.8	0.0045	97	0.0548

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

Organ weight  
Sex : FemaleStage : End of dosing  
Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

Animal No.	Body weight		Brain		Pituitary gland		Thyroid gland -RL		Salivary gland -RL	
	g	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %	
4101	221	1.96	0.89	16.0	0.0072	14.4	0.0065	377	0.171	
4102	229	1.95	0.85	13.4	0.0059	18.9	0.0083	420	0.183	
4103	232	1.89	0.81	11.9	0.0051	15.1	0.0065	487	0.210	
4104	231	1.96	0.85	12.4	0.0054	16.0	0.0069	439	0.190	
4105	224	1.79	0.80	11.6	0.0052	14.5	0.0065	391	0.175	
n	5	5	5	5	5	5	5	5	5	
Mean	227	1.91	0.84	13.1	0.0058	15.8	0.0069	423	0.186	
S.D.	5	0.07	0.04	1.8	0.0009	1.9	0.0008	43	0.015	

Animal No.	Thymus		Heart		Lung		Liver		Spleen	
	AB mg	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g	RE %
4101	465	0.210	0.89	0.40	1.09	0.49	6.72	3.04	0.44	0.20
4102	436	0.190	0.88	0.38	1.07	0.47	7.53	3.29	0.47	0.21
4103	409	0.176	0.82	0.35	1.09	0.47	7.29	3.14	0.42	0.18
4104	401	0.174	0.76	0.33	1.06	0.46	7.26	3.14	0.60	0.26
4105	365	0.163	0.72	0.32	0.92	0.41	6.67	2.98	0.34	0.15
n	5	5	5	5	5	5	5	5	5	5
Mean	415	0.183	0.81	0.36	1.05	0.46	7.09	3.12	0.45	0.20
S.D.	38	0.018	0.07	0.03	0.07	0.03	0.38	0.12	0.09	0.04

Animal No.	Kidney-RL		Adrenal gland -RL		Ovary-RL		Uterus	
	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %
4101	1.65	0.75	68	0.031	111.4	0.0504	431	0.1950
4102	1.84	0.80	73	0.032	90.4	0.0395	637	0.2782
4103	1.91	0.82	70	0.030	94.2	0.0406	586	0.2526
4104	1.80	0.78	68	0.029	96.5	0.0418	359	0.1554
4105	1.58	0.71	56	0.025	73.6	0.0329	318	0.1420
n	5	5	5	5	5	5	5	5
Mean	1.76	0.77	67	0.029	93.2	0.0410	466	0.2046
S.D.	0.14	0.04	6	0.003	13.6	0.0063	140	0.0595

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

Organ weight  
Sex : FemaleStage : End of recovery  
Dose : 2-Methylhexane 0 mg/kg

Species : Rat

Animal No.	Body weight	Brain		Pituitary gland		Thyroid gland -RL		Salivary gland -RL	
	g	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %
1106	224	1.96	0.88	11.9	0.0053	18.2	0.0081	364	0.163
1107	252	2.01	0.80	18.3	0.0073	16.0	0.0063	454	0.180
1108	240	1.91	0.80	13.2	0.0055	13.8	0.0058	415	0.173
1109	241	2.00	0.83	15.9	0.0066	17.7	0.0073	487	0.202
1110	233	1.82	0.78	13.3	0.0057	14.7	0.0063	432	0.185
n	5	5	5	5	5	5	5	5	5
Mean	238	1.94	0.82	14.5	0.0061	16.1	0.0068	430	0.181
S.D.	10	0.08	0.04	2.6	0.0008	1.9	0.0009	46	0.015

Animal No.	Thymus		Heart		Lung		Liver		Spleen	
	AB mg	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g	RE %
1106	249	0.111	0.79	0.35	1.10	0.49	5.39	2.41	0.42	0.19
1107	303	0.120	0.95	0.38	1.08	0.43	6.64	2.63	0.44	0.17
1108	390	0.163	0.94	0.39	1.04	0.43	6.22	2.59	0.43	0.18
1109	393	0.163	0.91	0.38	1.24	0.51	6.54	2.71	0.55	0.23
1110	377	0.162	0.85	0.36	1.02	0.44	6.29	2.70	0.48	0.21
n	5	5	5	5	5	5	5	5	5	5
Mean	342	0.144	0.89	0.37	1.10	0.46	6.22	2.61	0.46	0.20
S.D.	64	0.026	0.07	0.02	0.09	0.04	0.49	0.12	0.05	0.02

Animal No.	Kidney-RL		Adrenal gland -RL		Ovary-RL		Uterus	
	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %
1106	1.52	0.68	58	0.026	64.3	0.0287	401	0.1790
1107	1.83	0.73	58	0.023	61.1	0.0242	434	0.1722
1108	1.70	0.71	61	0.025	70.8	0.0295	631	0.2629
1109	1.79	0.74	64	0.027	86.3	0.0358	639	0.2651
1110	1.70	0.73	49	0.021	78.1	0.0335	492	0.2112
n	5	5	5	5	5	5	5	5
Mean	1.71	0.72	58	0.024	72.1	0.0303	519	0.2181
S.D.	0.12	0.02	6	0.002	10.3	0.0045	110	0.0444

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

Organ weight  
Sex : FemaleStage : End of recovery  
Dose : 2-Methylhexane 1000 mg/kg

Species : Rat

Animal No.	Body weight		Brain		Pituitary gland		Thyroid gland -RL		Salivary gland -RL	
	g	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %	
4106	224	1.90	0.85	10.2	0.0046	14.0	0.0063	383	0.171	
4107	226	2.05	0.91	8.8	0.0039	17.0	0.0075	410	0.181	
4108	262	1.94	0.74	13.5	0.0052	14.3	0.0055	426	0.163	
4109	215	1.92	0.89	14.4	0.0067	16.0	0.0074	333	0.155	
4110	203	1.92	0.95	10.6	0.0052	17.5	0.0086	398	0.196	
n	5	5	5	5	5	5	5	5	5	
Mean	226	1.95	0.87	11.5	0.0051	15.8	0.0071	390	0.173	
S.D.	22	0.06	0.08	2.4	0.0010	1.6	0.0012	36	0.016	

Animal No.	Thymus		Heart		Lung		Liver		Spleen	
	AB mg	RE %	AB g	RE %	AB g	RE %	AB g	RE %	AB g	RE %
4106	316	0.141	0.71	0.32	1.05	0.47	6.16	2.75	0.39	0.17
4107	350	0.155	0.86	0.38	1.12	0.50	5.89	2.61	0.39	0.17
4108	358	0.137	0.88	0.34	1.12	0.43	7.50	2.86	0.51	0.19
4109	310	0.144	0.85	0.40	0.97	0.45	6.42	2.99	0.46	0.21
4110	241	0.119	0.75	0.37	0.92	0.45	5.22	2.57	0.39	0.19
n	5	5	5	5	5	5	5	5	5	5
Mean	315	0.139	0.81	0.36	1.04	0.46	6.24	2.76	0.43	0.19
S.D.	46	0.013	0.08	0.03	0.09	0.03	0.84	0.17	0.05	0.02

Animal No.	Kidney-RL		Adrenal gland -RL		Ovary-RL		Uterus	
	AB g	RE %	AB mg	RE %	AB mg	RE %	AB mg	RE %
4106	1.56	0.70	59	0.026	79.8	0.0356	416	0.1857
4107	1.72	0.76	56	0.025	71.4	0.0316	438	0.1938
4108	1.96	0.75	56	0.021	85.7	0.0327	788	0.3008
4109	1.56	0.73	70	0.033	93.9	0.0437	665	0.3093
4110	1.34	0.66	48	0.024	73.6	0.0363	280	0.1379
n	5	5	5	5	5	5	5	5
Mean	1.63	0.72	58	0.026	80.9	0.0360	517	0.2255
S.D.	0.23	0.04	8	0.004	9.2	0.0047	205	0.0758

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

Appendix 10-1(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1001 Male 0 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Kidney, Kidney (IHC, alpha-2u globulin), Lymph node, mesenteric  
Lymph node, submandibular, Liver, Lung (bronchus), Mammary gland, inguinal  
Medulla oblongata, Muscle, quadriceps femoris, Optic nerve, Parathyroid, Pancreas  
Pituitary, Prostate, Peyer's patch, ileal, Salivary gland, submandibular  
Salivary gland, sublingual, Spinal cord (cervical, thoracic, lumbar), Skin, inguinal  
Sciatic nerve, Spleen, Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea  
Thyroid, Urinary bladder

Appendix 10-2(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1002 Male 0 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Kidney, Kidney (IHC, alpha-2u globulin), Lymph node, mesenteric  
Lymph node, submandibular, Liver, Lung (bronchus), Mammary gland, inguinal  
Medulla oblongata, Muscle, quadriceps femoris, Optic nerve, Parathyroid, Pancreas  
Pituitary, Prostate, Peyer's patch, ileal, Salivary gland, submandibular  
Salivary gland, sublingual, Spinal cord (cervical, thoracic, lumbar), Skin, inguinal  
Sciatic nerve, Spleen, Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea  
Thyroid, Urinary bladder



Appendix 10-3(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1003 Male 0 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Eye Retinal fold: minimal, unilateral

Prostate Infiltrate, inflammatory cell: minimal

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Heart, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Kidney, Lymph node, mesenteric, Lymph node, submandibular, Liver  
Lung (bronchus), Mammary gland, inguinal, Medulla oblongata  
Muscle, quadriceps femoris, Optic nerve, Parathyroid, Pancreas, Pituitary  
Peyer's patch, ileal, Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea, Thyroid  
Urinary bladder

Appendix 10-4(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1004 Male 0 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Kidney, Lymph node, mesenteric, Lymph node, submandibular, Liver  
Lung (bronchus), Mammary gland, inguinal, Medulla oblongata  
Muscle, quadriceps femoris, Optic nerve, Parathyroid, Pancreas, Pituitary  
Prostate, Peyer's patch, ileal, Salivary gland, submandibular  
Salivary gland, sublingual, Spinal cord (cervical, thoracic, lumbar), Skin, inguinal  
Sciatic nerve, Spleen, Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea  
Thyroid, Urinary bladder

Appendix 10-5(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1005 Male 0 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Kidney, Lymph node, mesenteric, Lymph node, submandibular, Liver  
Lung (bronchus), Mammary gland, inguinal, Medulla oblongata  
Muscle, quadriceps femoris, Optic nerve, Parathyroid, Pancreas, Pituitary  
Prostate, Peyer's patch, ileal, Salivary gland, submandibular  
Salivary gland, sublingual, Spinal cord (cervical, thoracic, lumbar), Skin, inguinal  
Sciatic nerve, Spleen, Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea  
Thyroid, Urinary bladder

Appendix 10-6(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 2001 Male 100 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Kidney, Liver

Appendix 10-7(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 2002 Male 100 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Cyst: minimal, unilateral  
Hyaline droplet, tubular cell: minimal, bilateral

Following tissues : Not remarkable

Liver

Appendix 10-8(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 2003 Male 100 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Hyaline droplet, tubular cell: minimal, bilateral

Following tissues : Not remarkable

Liver

Appendix 10-9(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 2004 Male 100 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Kidney, Liver

Appendix 10-10(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 2005 Male 100 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Regeneration,tubule: minimal, bilateral  
Hyaline droplet,tubular cell: minimal, bilateral

Following tissues : Not remarkable

Liver



Appendix 10-11(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 3001 Male 300 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Regeneration,tubule: mild, bilateral  
Hyaline droplet,tubular cell: mild, bilateral

Following tissues : Not remarkable

Liver

Appendix 10-12(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 3002 Male 300 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Regeneration,tubule: minimal, bilateral  
Hyaline droplet,tubular cell: mild, bilateral

Following tissues : Not remarkable

Liver

Appendix 10-13 (1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 3003 Male 300 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Cyst: minimal, unilateral  
Hyaline droplet, tubular cell: mild, bilateral

Following tissues : Not remarkable

Liver

Appendix 10-14 (1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 3004 Male 300 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Hyaline droplet, tubular cell: minimal, bilateral

Following tissues : Not remarkable

Liver

Appendix 10-15(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 3005 Male 300 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Hyaline droplet, tubular cell: mild, bilateral

Following tissues : Not remarkable

Liver

Appendix 10-16(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4001 Male 1000 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Hyaline droplet, tubular cell: mild, bilateral

Kidney (IHC, alpha-2u globrin) Alpha-2u globrin positive droplet

Liver Hypertrophy, hepatocyte, centrilobular: mild

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Lymph node, mesenteric, Lymph node, submandibular  
Lung (bronchus), Mammary gland, inguinal, Medulla oblongata  
Muscle, quadriceps femoris, Optic nerve, Parathyroid, Pancreas, Pituitary  
Prostate, Peyer's patch, ileal, Salivary gland, submandibular  
Salivary gland, sublingual, Spinal cord (cervical, thoracic, lumbar), Skin, inguinal  
Sciatic nerve, Spleen, Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea  
Thyroid, Urinary bladder

Appendix 10-17(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4002 Male 1000 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Cyst: minimal, unilateral  
Regeneration,tubule: mild, bilateral  
Hyaline droplet,tubular cell: mild, bilateral  
Cast,granular: minimal, unilateral

Kidney(IHC,alpha-2u globrin) Alpha-2u globrin positive droplet

Liver Hypertrophy,hepatocyte,centrilobular: minimal

Following tissues : Not remarkable

Adrenal, Aorta,thoracic, Bone,femur, Bone marrow,femur  
Brain(cerebrum,cerebellum,pons), Bone,sternum, Bone marrow,sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine,duodenum  
Intestine,jejunum, Intestine,ileum, Intestine,cecum, Intestine,colon  
Intestine,rectum, Lymph node,mesenteric, Lymph node,submandibular  
Lung(bronchus), Mammary gland,inguinal, Medulla oblongata  
Muscle,quadriceps femoris, Optic nerve, Parathyroid, Pancreas, Pituitary  
Prostate, Peyer's patch,ileal, Salivary gland,submandibular  
Salivary gland,sublingual, Spinal cord(cervical,thoracic,lumbar), Skin,inguinal  
Sciatic nerve, Spleen, Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea  
Thyroid, Urinary bladder

Appendix 10-18(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4003 Male 1000 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Hyaline droplet, tubular cell: mild, bilateral

Liver Hypertrophy, hepatocyte, centrilobular: mild

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Lymph node, mesenteric, Lymph node, submandibular  
Lung (bronchus), Mammary gland, inguinal, Medulla oblongata  
Muscle, quadriceps femoris, Optic nerve, Parathyroid, Pancreas, Pituitary  
Prostate, Peyer's patch, ileal, Salivary gland, submandibular  
Salivary gland, sublingual, Spinal cord (cervical, thoracic, lumbar), Skin, inguinal  
Sciatic nerve, Spleen, Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea  
Thyroid, Urinary bladder



Appendix 10-19(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4004 Male 1000 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney	Regeneration,tubule: minimal, unilateral Hyaline droplet,tubular cell: mild, bilateral Cast,granular: minimal, unilateral
Liver	Hypertrophy,hepatocyte,centrilobular: mild
Pancreas	Atrophy,acinar,focal: minimal

Following tissues : Not remarkable

Adrenal, Aorta,thoracic, Bone,femur, Bone marrow,femur  
Brain(cerebrum,cerebellum,pons), Bone,sternum, Bone marrow,sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine,duodenum  
Intestine,jejunum, Intestine,ileum, Intestine,cecum, Intestine,colon  
Intestine,rectum, Lymph node,mesenteric, Lymph node,submandibular  
Lung(bronchus), Mammary gland,inguinal, Medulla oblongata  
Muscle,quadriceps femoris, Optic nerve, Parathyroid, Pituitary, Prostate  
Peyer's patch,ileal, Salivary gland,submandibular, Salivary gland,sublingual  
Spinal cord(cervical,thoracic,lumbar), Skin,inguinal, Sciatic nerve, Spleen  
Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea, Thyroid  
Urinary bladder

Appendix 10-20(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4005 Male 1000 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Regeneration,tubule: minimal, unilateral  
Hyaline droplet,tubular cell: mild, bilateral

Liver Hypertrophy,hepatocyte,centrilobular: mild

Following tissues : Not remarkable

Adrenal, Aorta,thoracic, Bone,femur, Bone marrow,femur  
Brain(cerebrum,cerebellum,pons), Bone,sternum, Bone marrow,sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine,duodenum  
Intestine,jejunum, Intestine,ileum, Intestine,cecum, Intestine,colon  
Intestine,rectum, Lymph node,mesenteric, Lymph node,submandibular  
Lung(bronchus), Mammary gland,inguinal, Medulla oblongata  
Muscle,quadriceps femoris, Optic nerve, Parathyroid, Pancreas, Pituitary  
Prostate, Peyer's patch,ileal, Salivary gland,submandibular  
Salivary gland,sublingual, Spinal cord(cervical,thoracic,lumbar), Skin,inguinal  
Sciatic nerve, Spleen, Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea  
Thyroid, Urinary bladder

Appendix 10-21(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1101 Female 0 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Liver Vacuolation, hepatocyte, periportal: minimal

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-22(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1102 Female 0 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Liver, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-23(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1103 Female 0 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Liver Vacuolation, hepatocyte, periportal: minimal

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-24 (1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1104 Female 0 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Liver, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-25(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1105 Female 0 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Liver Vacuolation, hepatocyte, periportal: minimal

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-26(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 2101 Female 100 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

No tissues examined



Appendix 10-27(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 2102 Female 100 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

No tissues examined

Appendix 10-28(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 2103 Female 100 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

No tissues examined

B-9244

Appendix 10-29(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 2104 Female 100 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

No tissues examined

Appendix 10-30(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 2105 Female 100 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

No tissues examined

Appendix 10-31(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 3101 Female 300 mg/kg Day 22 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

No tissues examined

Appendix 10-32(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 3102 Female 300 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

No tissues examined

Appendix 10-33(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 3103 Female 300 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

No tissues examined

Appendix 10-34 (1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 3104 Female 300 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

No tissues examined



Appendix 10-35(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 3105 Female 300 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

No tissues examined

Appendix 10-36(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4101 Female 1000 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Liver, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-37(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4102 Female 1000 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Liver Vacuolation, hepatocyte, periportal: minimal

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-38(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4103 Female 1000 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Cyst: minimal, unilateral

Liver Vacuolation, hepatocyte, periportal: minimal

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Lymph node, mesenteric  
Lymph node, submandibular, Lung (bronchus), Mammary gland, inguinal  
Medulla oblongata, Muscle, quadriceps femoris, Optic nerve, Ovary, Parathyroid  
Pancreas, Pituitary, Peyer's patch, ileal, Salivary gland, submandibular  
Salivary gland, sublingual, Spinal cord (cervical, thoracic, lumbar), Skin, inguinal  
Sciatic nerve, Spleen, Stomach, Thymus, Tongue, Trachea, Thyroid  
Urinary bladder, Uterus (cervix, horn), Vagina

Appendix 10-39(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4104 Female 1000 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Liver, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-40(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4105 Female 1000 mg/kg Day 29 End of dosing period

Gross pathology:

All tissues Not remarkable

Histopathology:

Liver Vacuolation, hepatocyte, periportal: minimal

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-41(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

## Individual gross and histopathological findings

Animal No. 1006 Male 0 mg/kg Day 43 End of recovery period

## Gross pathology:

All tissues Not remarkable

## Histopathology:

Parathyroid No sample

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Kidney, Lymph node, mesenteric, Lymph node, submandibular, Liver  
Lung (bronchus), Mammary gland, inguinal, Medulla oblongata  
Muscle, quadriceps femoris, Optic nerve, Pancreas, Pituitary, Prostate  
Peyer's patch, ileal, Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea, Thyroid  
Urinary bladder

Appendix 10-42(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1007 Male 0 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Kidney, Lymph node, mesenteric, Lymph node, submandibular, Liver  
Lung (bronchus), Mammary gland, inguinal, Medulla oblongata  
Muscle, quadriceps femoris, Optic nerve, Parathyroid, Pancreas, Pituitary  
Prostate, Peyer's patch, ileal, Salivary gland, submandibular  
Salivary gland, sublingual, Spinal cord (cervical, thoracic, lumbar), Skin, inguinal  
Sciatic nerve, Spleen, Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea  
Thyroid, Urinary bladder



Appendix 10-43(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

## Individual gross and histopathological findings

Animal No. 1008 Male 0 mg/kg Day 43 End of recovery period

## Gross pathology:

All tissues Not remarkable

## Histopathology:

Prostate Infiltrate, inflammatory cell: minimal

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Kidney, Lymph node, mesenteric, Lymph node, submandibular, Liver  
Lung (bronchus), Mammary gland, inguinal, Medulla oblongata  
Muscle, quadriceps femoris, Optic nerve, Parathyroid, Pancreas, Pituitary  
Peyer's patch, ileal, Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea, Thyroid  
Urinary bladder

Appendix 10-44 (1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1009 Male 0 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Kidney, Lymph node, mesenteric, Lymph node, submandibular, Liver  
Lung (bronchus), Mammary gland, inguinal, Medulla oblongata  
Muscle, quadriceps femoris, Optic nerve, Parathyroid, Pancreas, Pituitary  
Prostate, Peyer's patch, ileal, Salivary gland, submandibular  
Salivary gland, sublingual, Spinal cord (cervical, thoracic, lumbar), Skin, inguinal  
Sciatic nerve, Spleen, Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea  
Thyroid, Urinary bladder

Appendix 10-45(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1010 Male 0 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Hyaline droplet, tubular cell: minimal, bilateral

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Lymph node, mesenteric, Lymph node, submandibular, Liver  
Lung (bronchus), Mammary gland, inguinal, Medulla oblongata  
Muscle, quadriceps femoris, Optic nerve, Parathyroid, Pancreas, Pituitary  
Prostate, Peyer's patch, ileal, Salivary gland, submandibular  
Salivary gland, sublingual, Spinal cord (cervical, thoracic, lumbar), Skin, inguinal  
Sciatic nerve, Spleen, Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea  
Thyroid, Urinary bladder

Appendix 10-46(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4006 Male 1000 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Heart Infiltrate, inflammatory cell, myocar: minimal

Kidney Regeneration, tubule: minimal, bilateral

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain(cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Lymph node, mesenteric, Lymph node, submandibular, Liver  
Lung(bronchus), Mammary gland, inguinal, Medulla oblongata  
Muscle, quadriceps femoris, Optic nerve, Parathyroid, Pancreas, Pituitary  
Prostate, Peyer's patch, ileal, Salivary gland, submandibular  
Salivary gland, sublingual, Spinal cord(cervical, thoracic, lumbar), Skin, inguinal  
Sciatic nerve, Spleen, Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea  
Thyroid, Urinary bladder

Appendix 10-47(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4007 Male 1000 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Regeneration,tubule: mild, bilateral

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Lymph node, mesenteric, Lymph node, submandibular, Liver  
Lung (bronchus), Mammary gland, inguinal, Medulla oblongata  
Muscle, quadriceps femoris, Optic nerve, Parathyroid, Pancreas, Pituitary  
Prostate, Peyer's patch, ileal, Salivary gland, submandibular  
Salivary gland, sublingual, Spinal cord (cervical, thoracic, lumbar), Skin, inguinal  
Sciatic nerve, Spleen, Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea  
Thyroid, Urinary bladder

Appendix 10-48(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4008 Male 1000 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Heart Infiltrate, inflammatory cell, myocar: minimal

Kidney Regeneration, tubule: mild, bilateral  
Cast, granular: minimal, unilateral

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain(cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Lymph node, mesenteric, Lymph node, submandibular, Liver  
Lung(bronchus), Mammary gland, inguinal, Medulla oblongata  
Muscle, quadriceps femoris, Optic nerve, Parathyroid, Pancreas, Pituitary  
Prostate, Peyer's patch, ileal, Salivary gland, submandibular  
Salivary gland, sublingual, Spinal cord(cervical, thoracic, lumbar), Skin, inguinal  
Sciatic nerve, Spleen, Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea  
Thyroid, Urinary bladder

Appendix 10-49(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4009 Male 1000 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Regeneration,tubule: mild, bilateral

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Lymph node, mesenteric, Lymph node, submandibular, Liver  
Lung (bronchus), Mammary gland, inguinal, Medulla oblongata  
Muscle, quadriceps femoris, Optic nerve, Parathyroid, Pancreas, Pituitary  
Prostate, Peyer's patch, ileal, Salivary gland, submandibular  
Salivary gland, sublingual, Spinal cord (cervical, thoracic, lumbar), Skin, inguinal  
Sciatic nerve, Spleen, Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea  
Thyroid, Urinary bladder

Appendix 10-50(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4010 Male 1000 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Kidney Cyst: minimal, unilateral  
Regeneration,tubule: minimal, bilateral

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum  
Coagulating gland, Epididymis, Esophagus, Eye, Heart, Intestine, duodenum  
Intestine, jejunum, Intestine, ileum, Intestine, cecum, Intestine, colon  
Intestine, rectum, Lymph node, mesenteric, Lymph node, submandibular, Liver  
Lung (bronchus), Mammary gland, inguinal, Medulla oblongata  
Muscle, quadriceps femoris, Optic nerve, Parathyroid, Pancreas, Pituitary  
Prostate, Peyer's patch, ileal, Salivary gland, submandibular  
Salivary gland, sublingual, Spinal cord (cervical, thoracic, lumbar), Skin, inguinal  
Sciatic nerve, Spleen, Stomach, Seminal vesicle, Testis, Thymus, Tongue, Trachea  
Thyroid, Urinary bladder



Appendix 10-51(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1106 Female 0 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Liver, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-52(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1107 Female 0 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Ovary Cyst: minimal, unilateral

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Liver, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-53(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1108 Female 0 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Liver, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-54(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1109 Female 0 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Liver, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-55(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 1110 Female 0 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Liver, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-56(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4106 Female 1000 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Liver, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-57(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4107 Female 1000 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Liver, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-58(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4108 Female 1000 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Parathyroid No sample

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Liver, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina



Appendix 10-59(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4109 Female 1000 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Liver, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

Appendix 10-60(1/1) 2-Methylhexane: A 28-Day Oral Gavage Toxicity Study in Rats  
with a Recovery Period for 14 Days

Individual gross and histopathological findings

Animal No. 4110 Female 1000 mg/kg Day 43 End of recovery period

Gross pathology:

All tissues Not remarkable

Histopathology:

Following tissues : Not remarkable

Adrenal, Aorta, thoracic, Bone, femur, Bone marrow, femur  
Brain (cerebrum, cerebellum, pons), Bone, sternum, Bone marrow, sternum, Esophagus  
Eye, Heart, Intestine, duodenum, Intestine, jejunum, Intestine, ileum  
Intestine, cecum, Intestine, colon, Intestine, rectum, Kidney  
Lymph node, mesenteric, Lymph node, submandibular, Liver, Lung (bronchus)  
Mammary gland, inguinal, Medulla oblongata, Muscle, quadriceps femoris  
Optic nerve, Ovary, Parathyroid, Pancreas, Pituitary, Peyer's patch, ileal  
Salivary gland, submandibular, Salivary gland, sublingual  
Spinal cord (cervical, thoracic, lumbar), Skin, inguinal, Sciatic nerve, Spleen  
Stomach, Thymus, Tongue, Trachea, Thyroid, Urinary bladder, Uterus (cervix, horn)  
Vagina

B-9244

### 信頼性保証書（1/3）

試験番号 : B-9244

試験表題 : 2-メチルヘキサノール：ラットを用いた 28 日間反復経口投与毒性試験  
及び 14 日間回復試験

本試験は以下に示す基準に従って実施されたことを保証致します。

- 「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」（薬食発 0331 第 8 号、平成 23・03・29 製局第 6 号、環企発第 110331010 号：平成 23 年 3 月 31 日）

なお、調査は下記の通り実施し、報告致しました。

#### 試験の調査

項目	担当者	調査日	試験責任者及び 運営管理者への 報告日
試験計画書		2023 年 10 月 26 日	2023 年 10 月 27 日
作業予定表・ コンピュータプロトコール 改善確認		2023 年 10 月 31 日	2023 年 11 月 1 日
試験計画書変更書（1）		2023 年 11 月 2 日	2023 年 11 月 2 日
調製・保存（被験物質）		2023 年 11 月 6 日	2023 年 11 月 6 日
被験液の分析		2023 年 11 月 8 日	2023 年 11 月 8 日
群分け		2023 年 11 月 8 日	2023 年 11 月 8 日
投与・一般状態の観察		2023 年 11 月 10 日	2023 年 11 月 10 日
詳細な一般状態の観察		2023 年 11 月 14 日	2023 年 11 月 16 日
機能検査・握力測定・ 自発運動量の測定		2023 年 12 月 4 日	2023 年 12 月 5 日
尿検査（尿量・色調・定性・沈渣）		2023 年 12 月 6 日	2023 年 12 月 7 日
採血・剖検		2023 年 12 月 8 日	2023 年 12 月 12 日
病理組織学検査（切り出し）		2023 年 12 月 11 日	2023 年 12 月 12 日

## 信頼性保証書 (2/3)

項目	担当者	調査日	試験責任者及び 運営管理者への 報告日
試験計画書変更書 (2)		2024年 1月 15日	2024年 1月 16日
病理組織学検査 (免疫組織化学 染色)		2024年 1月 29日	2024年 1月 30日
		2024年 1月 30日	
生データ (動物試験・器官重量・ 臨床検査・飼育関係・被験物質 関係・被験液の分析)		2024年 2月 19日	2024年 2月 21日
		2024年 2月 20日	
		2024年 2月 21日	
最終報告書草案・図・表・付表 (一般状態・詳細な一般状態・ 機能検査・握力・自発運動量・ 体重・摂餌量・尿検査・血液学 検査・凝固系検査・血液化学検査・ 器官重量)		2024年 2月 19日	2024年 2月 21日
		2024年 2月 20日	
		2024年 2月 21日	
		2024年 2月 21日	
改善確認		2024年 2月 22日	2024年 2月 26日
生データ (剖検・病理)		2024年 3月 7日	2024年 3月 7日
表・付表 (剖検・病理)		2024年 3月 7日	2024年 3月 7日
試験計画書変更書 (3)		2024年 3月 14日	2024年 3月 14日
最終報告書		2024年 3月 19日	2024年 3月 19日

## 信頼性保証書 (3/3)

## プロセス調査

項目	試験番号	担当者	調査日	試験責任者及び 運営管理者への 報告日
動物入荷	B-9165		2023年 8月 21日	2023年 8月 22日
検疫・馴化	B-9165		2023年 8月 21日	2023年 8月 22日
	B-9165		2023年 8月 26日	2023年 8月 30日
体重・摂餌量測定	B-9215		2023年 9月 12日	2023年 9月 14日
血液学検査・凝固系 検査・血液化学検査	B-9207		2023年 10月 10日	2023年 10月 11日
病理組織学検査 (包埋・薄切・染色・ 鏡検)	I-6093		2023年 10月 12日	2023年 10月 13日
	I-6093		2023年 10月 13日	2023年 10月 13日
	I-6093		2023年 10月 16日	2023年 10月 17日
	B-9213		2023年 10月 27日	2023年 10月 31日
	B-9201		2024年 2月 28日	2024年 3月 1日

2024年 3月 19日

株式会社ボゾリサーチセンター

信頼性保証部門