

最終報告書

指定添加物（香料）の安全性に関する試験
（リナロールオキシドに関する 90 日間反復投与毒性試験）

試験番号：



目次

目次	1
試験情報	5
最終報告書の作成	7
試験責任者及び試験従事者	8
1 要約	10
2 緒言	10
3 試験材料及び方法	10
3.1 被験物質	10
3.2 媒体	11
3.3 供試動物	11
3.4 試験系選択理由	12
3.5 動物管理	12
3.5.1 飼育条件	12
3.5.2 収容ケージ及び床敷	12
3.5.3 飼料及び給餌方法	12
3.5.4 飲料水及び給水方法	13
3.5.5 個体識別法	13
3.6 投与期間及び投与方法	13
3.7 被験物質投与量の設定理由	13
3.8 投与経路・投与方法の選択理由	13
3.9 被験物質投与液の調製方法	14
3.10 投与液中における被験物質の安定性及び濃度確認試験	14
3.10.1 安定性試験	14
3.10.2 濃度確認試験	14
3.11 群構成及び使用動物数	14
3.12 観察及び測定項目	15
3.12.1 一般状態	15
3.12.2 体重	15
3.12.3 摂餌量	15
3.12.4 摂水量	15

3.12.5	眼科学的検査	15
3.12.6	尿検査	16
3.12.7	血液学的検査	17
3.12.8	血液生化学的検査	18
3.12.9	病理学的検査	18
3.12.9.1	肉眼的病理学検査	18
3.12.9.2	器官重量	19
3.12.9.3	病理組織学的検査	19
3.13	統計処理	19
3.14	被験物質投与液の分析方法 ¹⁾	19
3.14.1	標準物質	19
3.14.2	分析用試薬及び使用機器	19
3.14.2.1	試薬	19
3.14.2.2	使用機器	20
3.14.3	試薬溶液の調製	20
3.14.3.1	0.2%りん酸水溶液	20
3.14.3.2	移動相 [アセトニトリル/0.2%りん酸水溶液 (50 : 50)]	20
3.14.3.3	希釈液	20
3.14.4	分析用試料の調製	20
3.14.4.1	標準原液 (検量線用・QC 用)	20
3.14.4.2	検量線用標準溶液	20
3.14.4.3	QC 用試料	21
3.14.4.4	試料前処理法	21
3.14.4.5	測定条件	21
3.14.4.6	HPLC 条件	21
3.14.5	システム適合性	22
3.14.6	濃度の算出	22
3.14.7	投与液安定性	22
3.14.8	測定試料実測時の測定系の精度管理方法	22
3.14.9	データ処理方法	22
3.14.10	数値の取り扱い	22
3.14.11	再測定	23

4	資料の保管	23
5	予見することができなかった試験の信頼性に影響を及ぼす疑いのある事態及び試験計画書に従わなかったこと	23
6	試験結果	24
6.1	生存率及び一般状態	24
6.2	体重	24
6.3	摂餌量	24
6.4	摂水量	24
6.5	眼科学的検査	25
6.6	尿検査	25
6.7	血液学的検査	25
6.8	血液生化学的検査	25
6.9	病理学的検査	25
6.9.1	肉眼的病理学検査	25
6.9.2	器官重量及び器官重量体重比	26
6.9.3	病理組織学的検査	26
6.10	投与液中における被験物質の安定性及び濃度確認試験結果	27
6.10.1	投与液中における被験物質の安定性試験結果	27
6.10.2	投与液中における被験物質の濃度確認試験結果	27
6.10.3	投与液分析時の精度管理結果	27
7	考察及び結論	27
8	文献	29
9	図及び総括表	
Figure 1	: 体重曲線	30
Table 1	: 生存率	31
Table 2	: 一般状態	32
Table 3	: 体重	80
Table 4	: 摂餌量	82
Table 5	: 摂水量	83
Table 6	: 眼科学的検査	84
Table 7	: 尿検査	85
Table 8	: 血液学的検査	88
Table 9	: 血液生化学的検査	90

Table 10	: 肉眼的病理学検査	92
Table 11	: 器官重量	93
Table 12	: 器官重量体重比	95
Table 13	: 病理組織学的検査	97
Table 14	: 免疫組織化学的所見	101
Table 15	: 投与液中における被験物質の安定性試験結果	102
Table 16	: 投与液中における被験物質の濃度確認試験結果	103
Table 17	: システム適合性	104
Table 18	: 検量線	105
Table 19	: QC サンプル	106
10 個体別表		
Appendix 1	: 一般状態	1-1~54
Appendix 2	: 体重	2-1~ 8
Appendix 3	: 摂餌量	3-1~ 8
Appendix 4	: 摂水量	4-1~ 8
Appendix 5	: 眼科学的検査	5-1~ 2
Appendix 6	: 尿検査	6-1~ 6
Appendix 7	: 血液学的検査	7-1~ 8
Appendix 8	: 血液生化学的検査	8-1~12
Appendix 9	: 肉眼的病理学検査	9-1~ 2
Appendix 10	: 器官重量	10-1~ 8
Appendix 11	: 器官重量体重比	11-1~ 8
Appendix 12	: 病理組織学的検査	12-1~80
Appendix 13	: 免疫組織化学的所見	13-1
11 添付資料		
11.1	: 床敷中汚染物質分析試験成績書	
11.2	: 飼料中汚染物質分析試験成績書	
11.3	: 飲料水試験検査成績書	
12 信頼性保証陳述書		


試験情報

- 試験表題 : 指定添加物（香料）の安全性に関する試験（リナロールオキシドに関する 90 日間反復投与毒性試験）
- 試験番号 : [REDACTED]
- 試験目的 : リナロールオキシドをラットに 90 日間強制経口投与し、反復投与による毒性を明らかにすることを目的とした。
- 試験の取り扱い : 「申請資料の信頼性の基準」（医薬品、医療機器等の品質、有効性及び安全性の確保等に関する法律施行規則第 43 条：平成 26 年 7 月 30 日厚生労働省令第 87 号）を遵守し、種々の操作、データの取り扱いなどは試験実施施設の標準操作手順書(SOP)に従って実施した。
- ガイドライン : 「食品添加物の指定及び使用基準改正に関する指針」（平成 8 年 3 月 22 日衛化第 29 号：厚生省生活衛生局通知）に従って実施した。
- 動物愛護 : 「動物の愛護及び管理に関する法律」（平成 26 年 5 月 法律第 46 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 25 年 9 月 環境省告示第 84 号）、「厚生労働省の所管する実施機関における動物実験等の実施に関する基本指針」（厚生労働省大臣官房厚生科学課長通知平成 27 年 2 月 科発 0220 第 1 号）及び「動物実験の適正な実施に向けたガイドライン」（平成 18 年 6 月 日本学術会議）に基づいた [REDACTED] に従って実施した。
- 試験委託者 : 国立医薬品食品衛生研究所
[REDACTED]
- 試験実施施設 : [REDACTED]
- 試験開始日 : [REDACTED]

試験日程


動物入荷日	:	
群分け実施日	:	
実験開始日	:	
(被験物質投与開始日)	:	
被験物質投与終了日	:	
剖検日	:	
実験終了日	:	
(病理組織学的検査終了日)	:	

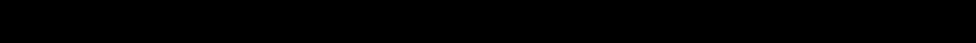
試験終了日 : 

試験番号： 

最終報告書の作成

試験表題 : 指定添加物（香料）の安全性に関する試験（リナロールオキシドに関する 90 日間反復投与毒性試験）

試験番号 : 

試験責任者 : 

試験責任者及び試験従事者

試験責任者 :

試験主担当者 :

動物飼育管理 :

動物入荷・群分け :

被験物質投与液の調製・投与 :

投与液中の被験物質の安定性・液 :

一般状態観察 :

体重・摂餌量・摂水量測定 :

眼科学的検査 :

尿検査 :

血液学的検査 :

血液生化学的検査 :

肉眼的病理学検査（器官重量測定を含む）

: [REDACTED]

病理組織標本・免疫組織化学標本作製（切り出しを含む）

: [REDACTED]

病理組織学的検査

:

病理組織学的検査責任者

:

集計処理

:

被験物質管理責任者

:

注) アンダーラインは部門責任者を示す。

* : [REDACTED]以降、病理標本作製部門責任者

** : [REDACTED]まで、病理標本作製部門責任者

1 要約

本試験において、被験物質のリナロールオキシドを0（対照）、80、250及び800 mg/kg/dayの用量で、CrI:CD(SD)系ラットの雌雄各群10匹に90日間強制経口投与し、反復投与による毒性影響を検討した。

雌雄すべての群において死亡はみられず、摂餌量、眼科学的検査、尿検査、血液学的検査及び肉眼的病理学検査においては、被験物質投与の影響は認められなかった。

一般状態では、雌雄の800 mg/kg/day群で投与後に歩行異常及び自発運動の低下（雄のみ）が観察され、被験物質の鎮静作用が示唆された。

体重では、雄の800及び250 mg/kg/day群及び雌の800 mg/kg/day群において有意な低値が認められ、被験物質の毒性影響が示唆された。

血液生化学的検査、器官重量及び病理組織学的検査においては、肝臓及び腎臓に対する影響が示唆された。

肝臓に関連する変化として、雄の被験物質投与各群及び雌の800 mg/kg/day群で肝相対重量の有意な増加が認められ、病理組織学的には、雌雄の800 mg/kg/day群の全例で小葉中心性肝細胞肥大が観察された。雌の800 mg/kg/day群では小葉周辺性の小滴性脂肪変性の発生頻度の有意な高値が認められ、血液生化学的検査では、T-CHO及びPLの有意な高値が認められた。さらに雌雄の800 mg/kg/day群においてγ-GTPの有意な高値が認められたことから、被験物質の毒性影響と判断した。また、雌雄の800 mg/kg/day群及び雌の250 mg/kg/day群で認められたGLUの低値、雄の800 mg/kg/day群で認められたTPの高値についても、肝機能への影響に関連する変化と判断した。

腎臓に関連する変化として、雌雄の800 mg/kg/day群及び雄の250 mg/kg/day群で相対重量の有意な高値が認められ、さらに血液生化学的検査では、雌雄の800 mg/kg/day群においてMgの有意な高値が認められたことから、被験物質の腎機能への影響が示唆された。

以上、CrI:CD(SD)ラット雌雄に0（対照）、80、250及び800 mg/kg/dayの用量でリナロールオキシドを90日間強制経口投与した結果、神経系、肝臓及び腎臓への影響が示唆された。雄の800及び250 mg/kg/day群で体重の有意な低値が認められ、雌の800及び250 mg/kg/day群において、肝機能と関連するパラメータの有意な変化が認められたことから、本試験条件下におけるリナロールオキシドの無毒性量（NOAEL）は、雌雄ともに80 mg/kg/dayと判断された。

2 緒言

リナロールオキシドの一般毒性学的性質を検討し、あわせて無毒性量(NOAEL)を明らかにする目的で、0、80、250及び800 mg/kgを雌雄のCrI:CD(SD)系ラットに90日間強制経口投与する反復投与毒性試験を実施した。

3 試験材料及び方法

3.1 被験物質

名称	: リナロールオキシド
供給源	: 国立医薬品食品衛生研究所

製造元 : [REDACTED]
 ロット番号 : [REDACTED]
 成分含量 : 99.5%
 外観及び性状 : 無色の液体
 試験責任者入手年月日 : [REDACTED]
 保管条件 : 室温保存
 保管場所 : [REDACTED] (許容範囲 1~30°C)
 使用期限 : [REDACTED]
 保管温度 : 被験物質管理責任者管理 : 実測値 17.5~25.5°C
 ([REDACTED])
 試験責任者管理 : 実測値 16.0~22.0°C
 ([REDACTED])

3.2 媒体

名称 : コーン油
 製造元 : 和光純薬工業株式会社
 ロット番号 : [REDACTED]
 保管条件 : 室温
 保管場所 : [REDACTED]

3.3 供試動物

動物種 : ラット
 系統 : Crl:CD(SD) (SPF 動物)
 性 : 雌雄
 入荷時週齢 : 5 週齢
 投与開始時週齢 : 6 週齢
 購入 (使用) 匹数 : 雌雄各 46 匹 (雌雄各 40 匹)
 供給源 : 日本チャールス・リバー株式会社 日野飼育センター
 所在地 : 〒529-1633 滋賀県蒲生郡日野町下駒月 735 番地
 検疫・馴化期間 : 6 日間
 検疫・馴化期間中の検査 : 体重測定 (入手翌日及び群分け体重)
 一般状態の観察 (1 日 1 回)
 群分け後の余剰動物の処置 : 雌雄各 2 匹を微生物学的なモニタリング用として同一飼育室
 で飼育し、残りの雌雄各 4 匹は試験系から除外した。
 モニタリング動物の検査結果 : 飼育期間中を通して体重、一般状態のいずれも異常は認められ
 なかった。また、計画屠殺時における剖検でも異常は認められ
 なかった。

3.4 試験系選択理由

ラットは、通常安全性試験に多用されている動物種であり、また、本系統は微生物学的に統御され、遺伝的に安定であり、累積データが豊富であること等から選択した。

3.5 動物管理

3.5.1 飼育条件

飼育室	:	XXXXXXXXXX (検疫・馴化期間及び XXXXXXXXXX まで) (XXXXXXXXXX 以降)
温度	:	実測値；20.3～23.0 °C (設定温度；22±3 °C)
相対湿度	:	実測値；50～70 % (設定範囲；55±15 %)
照明時間	:	12 時間／日(7:00～19:00)
換気回数	:	10 回以上／時間
飼育	:	2 匹／ケージ (検疫・馴化期間中も 2 匹／ケージ)
ケージ (床敷) 交換頻度	:	2～3 回／週
ケージ蓋交換頻度	:	1 回／月
給水瓶交換頻度	:	2～3 回／週

3.5.2 収容ケージ及び床敷

ケージ	:	プラスチック製ケージ (W257×D426×H200 mm)
ケージ蓋	:	ステンレス製
消毒方法	:	プラスチック製ケージは常圧蒸気殺菌 ケージ蓋は高圧蒸気滅菌
床敷	:	ソフトチップ (有限会社 原商店)
消毒方法	:	高圧蒸気滅菌
床敷中の環境汚染物質	:	中部科学資材株式会社 (有限会社 原商店の代理店) より分析値を入手し、当研究所で定める最大許容濃度以下であり、試験への影響がないことを確認した (11 添付資料 11.1)。

3.5.3 飼料及び給餌方法

飼料	:	オリエンタル酵母工業株式会社製固型飼料 MF ロット番号 XXXXXXXXXX
給餌方法	:	ケージ蓋に取り付けられている給餌器に入れて、自由摂取
給餌器の消毒方法	:	高圧蒸気滅菌
飼料中の汚染物質	:	オリエンタル酵母工業株式会社よりロットごとに分析値を入手し、当研究所における最大許容濃度以下であり、試験への影響がないことを確認した (11 添付資料 11.2)。

3.9 被験物質投与液の調製方法

被験物質の必要量(g)を、電子天秤 LA4200S 型 (ザルトリウス株式会社) を用いてビーカーに秤量し、媒体で共洗いをしながらメスシリンダーに移し、規定量にメスアップした。調製した投与液は日数分に小分けし、調製後は XXXXXXXXXX (実測値: 3~6 °C) で使用時まで保存した。被験物質投与液は安定性が確認されるまでは用時調製し、安定性確認後は 3~7 日間に 1 回調製した。

3.10 投与液中における被験物質の安定性及び濃度確認試験

3.10.1 安定性試験

投与液の初回調製時 (2017 年 11 月 30 日) に、低濃度及び高濃度投与液について調製容器より約 5 mL を各 2 点採取し、保存開始前 (初回調製時の濃度確認試験の分析値をあてた)、冷蔵保存 5 日 + 室温 24 時間後及び冷蔵保存 10 日 + 室温 24 時間後の計 3 点について投与液中濃度を分析した。分析は「3.14 被験物質投与液の分析方法」に従って実施し、安定性は保存開始前の分析値の $\pm 10\%$ で評価した。

3.10.2 濃度確認試験

投与用の初回 (2017 年 11 月 30 日) 及び最終回調製時 (2018 年 2 月 27 日) の 0 mg/mL を含む各濃度調製投与液について調製容器より約 5 mL を採取し、投与液中被験物質濃度を分析した。分析値は設定濃度の $\pm 10\%$ で評価した。

3.11 群構成及び使用動物数

雌雄ラット各 46 匹よりそれぞれ 40 匹の動物をコンピューターによる体重を基にした体重層別法により選び、次表の如く 8 群 (10 匹/群) に群分けした。群分けは実験開始日の前日に行い、群分け時の体重が各群間で統計学的に有意差のないことを Bartlett 法による等分散検定 (5%水準) で確認した。実験開始時におけるラットの体重範囲は雄で 214.7~235.6 g、雌で 158.0~186.8 g であり、雌雄ともに平均体重の $\pm 20\%$ 以内であった。

性別	群	被験物質	投与量 (mg/kg/day)	匹数	動物番号
雄	01M	リナロールオキシド	0 ^{a)}	10	01M01~01M10
	02M	リナロールオキシド	80	10	02M01~02M10
	03M	リナロールオキシド	250	10	03M01~03M10
	04M	リナロールオキシド	800	10	04M01~04M10
雌	01F	リナロールオキシド	0 ^{a)}	10	01F01~01F10
	02F	リナロールオキシド	80	10	02F01~02F10
	03F	リナロールオキシド	250	10	03F01~03F10
	04F	リナロールオキシド	800	10	04F01~04F10

a) : 媒体を投与

3.12 観察及び測定項目

3.12.1 一般状態

実験開始後、1日2回（投与後及び午後）、すべての動物について一般行動、中毒症状、生死などについて観察し、個体別に記録した。

3.12.2 体重

実験開始時及びその後、毎週1回、全動物について電子天秤 LA4200 型（ザルトリウス株式会社）を用いて個体別に体重を測定した。また、計画屠殺時に各動物の1晩絶食後の体重（剖検日体重）を測定した。

3.12.3 摂餌量

投与開始前に1回、投与開始後は1週間に1回、2日間の摂取量を電子天秤 LA4200 型（ザルトリウス株式会社）を用いてケージ単位で測定し、1匹当たりの1日平均摂餌量を算出した。

3.12.4 摂水量

投与開始前に1回、投与開始後は1週間に1回、2日間の摂取量を電子天秤 LA4200 型（ザルトリウス株式会社）を用いてケージ単位で測定し、1匹当たりの1日平均摂水量を算出した。

3.12.5 眼科学的検査

投与第13週に、対照群及び各用量群の雌雄各6匹（動物番号順）について前眼房、中間透光体、眼底あるいはその他の部位をハロゲン双眼倒像検眼鏡 IO- α 型（株式会社ナイツ）を用いて散瞳条件下で検査を行った。散瞳剤としてミドリン P（参天製薬株式会社、ロット番号 XXXXXXXXXX）を使用した。

3.12.6 尿検査

投与第 13 週に、対照群及び各用量群の雌雄各 6 匹（動物番号順）について以下の検査を実施した。

動物は検査当日の投与後、採尿ラック（日本チャールス・リバー株式会社）に移し蓄尿を開始した。蓄尿中は採尿ラック用の給水瓶及び給餌器を用いて 3.5.3 項及び 3.5.4 項に記載の飼料及び飲料水を投与した。採尿ラックへの移動は投与後に群単位で実施した。約 4 時間（-6～±0 分）の蓄尿後、尿サンプルを回収すると同時に再度採尿用の容器を付け替えてその後、約 20 時間（-3～±0 分）の蓄尿を行った。項目 1)から 8)は 4 時間蓄尿にて得た新鮮尿を用いて実施し、項目 9)から 14)については約 20 時間蓄尿した尿を用いて検査を実施した。

測定項目及び測定法は次の通りであった。

項目	測定法及び測定機器
1) pH	マルチスティックス (シメンスヘルスカア・ダ イク [®] / スティックス株式会社)
2) 潜血	マルチスティックス (シメンスヘルスカア・ダ イク [®] / スティックス株式会社)
3) ケトン体	マルチスティックス (シメンスヘルスカア・ダ イク [®] / スティックス株式会社)
4) 尿糖	マルチスティックス (シメンスヘルスカア・ダ イク [®] / スティックス株式会社)
5) 蛋白	マルチスティックス (シメンスヘルスカア・ダ イク [®] / スティックス株式会社)
6) ウロビリノーゲン	マルチスティックス (シメンスヘルスカア・ダ イク [®] / スティックス株式会社)
7) ビリルビン	マルチスティックス (シメンスヘルスカア・ダ イク [®] / スティックス株式会社)
8) 沈渣	Sternheimer & Malbin 染色後鏡検
9) 色調	肉眼的観察法
10) 尿量	重量測定法 電子天秤 LA4200 型 (ザルトリウス株式会社)
11) 比重	アタゴ血清蛋白屈折計 N (株式会社アタゴ)
12) ナトリウム(Na)	イオン選択電極法 日立 7070 形自動分析装置 (株式会社日立製作所)
13) カリウム(K)	イオン選択電極法 日立 7070 形自動分析装置 (株式会社日立製作所)
14) 塩素(Cl)	イオン選択電極法 日立 7070 形自動分析装置 (株式会社日立製作所)

3.12.7 血液学的検査

被験物質投与期間終了後の全生存動物について下記の検査を実施した。検査試料（血液）の採取は、採取前日の夕方（16:00 頃）から絶食させた動物を、当日に実験小動物用簡易吸入麻酔装置 NARCOBIT-E（KN-1070、株式会社夏目製作所）を用い、イソフルラン（マイラン製薬株式会社、ロット番号 XXXXXXXXXX）麻酔下で開腹し、剥離後の腹部大動脈から行った。動物の採血（屠殺）順は、雌雄毎に最初の群の最も若い動物番号を第1番目とし、以後、次群の最も若い動物番号へと順次進め、最終群到達後は最初の群に戻る方法とした。

採取した血液の一部を抗凝固剤入りの試験管に移し、下表項目 1)~10)は多項目自動血球分析装置 XT-2000i（シスメックス株式会社）を、項目 11), 12)は全自動血液凝固測定装置 CA-530（シスメックス株式会社）を用いて測定した。抗凝固剤として項目 1)~10)には EDTA-2K を、項目 11), 12)にはクエン酸ナトリウムを用いた。なお、多項目自動血球分析装置 XT-2000i で型別白血球数及び網赤血球数が測定できなかった動物はみられなかったことから、血液塗抹標本は作製しなかった。

項目	測定法
1) 赤血球数(RBC)	シーフローDC 検出法
2) 血色素量(HGB)	SLS ヘモグロビン法
3) ヘマトクリット値(HCT)	シーフローDC 検出法
4) 平均赤血球容積(MCV)	シーフローDC 検出法及び計算法
5) 平均赤血球血色素量(MCH)	シーフローDC 検出法及び計算法
6) 平均赤血球血色素濃度(MCHC)	シーフローDC 検出法及び計算法
7) 血小板数(PLT)	シーフローDC 検出法
8) 網赤血球数(RET)	フローサイトメトリー法及び計算法
9) 白血球数(WBC)	フローサイトメトリー法
10) 型別白血球数(DIFFERENTIAL LEUKOCYTE COUNT)	
リンパ球数 (LYMPH)	フローサイトメトリー法
好中球数 (NEUT)	フローサイトメトリー法
単球数 (MONO)	フローサイトメトリー法
好酸球数 (EO)	フローサイトメトリー法
好塩基球数 (BASO)	フローサイトメトリー法
11) プロトロンビン時間(PT)	凝固時間法：光散乱検出方式
12) 活性化部分トロンボプラスチン時間(APTT)	凝固時間法：光散乱検出方式

3.12.8 血液生化学的検査

検査は、全生存動物について、前項で採取した血液の残りを遠心分離して得た血清を用いて実施した。測定項目及び測定法は以下の通りであった。

測定機器は、日立 7070 形自動分析装置を用いた。

項目	測定法
1) アスパラギン酸アミノトランスフェラーゼ (AST)	リンゴ酸脱水素酵素共役・UV 法 (JSCC 標準化対応法)
2) アラニンアミノトランスフェラーゼ (ALT)	乳酸脱水素酵素共役・UV 法 (JSCC 標準化対応法)
3) アルカリフォスファターゼ (ALP)	酵素活性測定法 (JSCC 標準化対応法)
4) γ -グルタミルトランスアミナーゼ (γ -GTP)	酵素活性測定法 (JSCC 標準化対応法)
5) 総ビリルビン (T-BIL)	パナジオン酸化法
6) 尿素窒素 (BUN)	酵素法 (ウレアゼ・GLDH 法)
7) クレアチニン (CRE)	酵素法
8) ブドウ糖 (GLU)	ヘキナーゼ法
9) 総コレステロール (T-CHO)	酵素法
10) リン脂質 (PL)	酵素法
11) トリグリセリド (TG)	酵素法 (遊離グリセロール消去法)
12) 総蛋白 (TP)	ビuret法
13) アルブミン (ALB)	BCG 法
14) A/G 比 (A/G)	算出法
15) 無機リン (IP)	フィスケル法
16) カルシウム (CA)	OCPC 法
17) マグネシウム (MG)	キシリトルブルー法
18) ナトリウム (NA)	イオン選択電極法
19) カリウム (K)	イオン選択電極法
20) 塩素 (CL)	イオン選択電極法

3.12.9 病理学的検査

投与期間終了後に、3.12.7 項において採血し、放血致死させた動物について、下記の病理学的検査を行った。

3.12.9.1 肉眼的病理学検査

全生存動物について、全身の諸器官・組織の肉眼的病理学検査を実施し、下記の器官・組織を摘出し、10%緩衝ホルマリン液（ただし、精巣は Glutaraldehyde Formalin Acetic acid (GFA) 液にて前固定後、眼球は Glutaraldehyde-Formaldehyde (G-F) 混合固定液にて前固定後）にて保存した。

心臓、脾臓、リンパ節（頸部、腸間膜）、胸腺、下垂体、甲状腺（上皮小体を含む）、副腎、鼻腔、気管、肺（気管支を含む）、舌、唾液腺（顎下腺、舌下腺）、食道、胃、小腸（十二指腸、空腸、回腸）、大腸（盲腸、結腸、直腸）、肝臓、膵臓、腎臓、膀胱、精巣、精巣上体、前立腺、

精囊、卵巣（卵管を含む）、子宮、乳腺、膣、脳（大脳、小脳）、脊髄（胸部）、坐骨神経、大動脈、眼球、ハーダー氏腺、皮膚、骨及び骨髄（胸骨、大腿骨）、骨格筋、ジンバル腺、その他肉眼病変部

3.12.9.2 器官重量

全生存動物の下記の器官について電子天秤 CP323S 型若しくは BP61S 型（ザルトリウス株式会社）を用いて重量を測定し、剖検日体重を用いて器官重量体重比（相対重量）を算出した。

脳、下垂体*、心臓、肺（気管支を含む）、肝臓、脾臓、腎臓、副腎、精巣、前立腺*、精囊*、卵巣（卵管を含む）、子宮、唾液腺、胸腺、甲状腺（上皮小体を含む）*

*：固定後測定した。

3.12.9.3 病理組織学的検査

対照群及び最高濃度投与群（01M、04M、01F 及び 04F 群）のすべてについては採取した器官・組織（3.12.9.1 項参照）について常法に従い、パラフィン包埋、薄切、ヘマトキシリン・エオジン染色標本作製し、鏡検した。その他の群については、被験物質投与との関連が疑われる変化のみられた肝臓、腎臓、副腎、甲状腺（上皮小体を含む）及び肉眼病変部につき検査した。

また、雄の被験物質投与群の腎臓で観察された所見について確認するため、雄全動物の腎臓について、抗 $\alpha 2u$ -Globulin 抗体（Goat Polyclonal、R&D Systems、ロット番号 XXXXXXXXXX）を用いて $\alpha 2u$ -グロブリン免疫組織化学標本作製し、鏡検した。

3.13 統計処理

対照群と各用量群（01M 群と 02M~04M 群及び 01F 群と 02F~04F 群）との間の統計学的な有意差検定を行い、危険率 5% ($P < 0.05$) 又は 1% ($P < 0.01$) のレベルで判定した。統計学的解析は、対照群と各投与群の体重、摂餌量、摂水量、尿検査（尿試験紙検査、尿沈渣及び色調を除く）、血液学的検査、血液生化学的検査及び器官重量の各測定値について、5%有意水準で Bartlett 法による等分散検定を行い、等分散の場合は、パラメトリックの Dunnett 法による両側検定を、不等分散の場合は、ノンパラメトリックの Steel 法による両側検定を行った。また、尿検査（尿試験紙検査、尿沈渣及び色調）、肉眼的病理学検査及び病理組織学的検査における発生頻度の差の検定については、Fisher の直接確率検定（片側）を、程度のある病変については Wilcoxon 検定（両側）を行った。なお、一般状態及び所見の認められなかった眼科学的検査においては統計処理を行わなかった。

3.14 被験物質投与液の分析方法¹⁾

3.14.1 標準物質

3.1 項の被験物質を標準物質として使用した。

3.14.2 分析用試薬及び使用機器

3.14.2.1 試薬

アセトニトリル : HPLC 用、和光純薬工業株式会社
ロット番号 : XXXXXXXXXX

エタノール(99.5)	: HPLC 用、和光純薬工業株式会社 ロット番号： XXXXXXXXXX
りん酸	: 試薬特級、和光純薬工業株式会社 ロット番号： XXXXXXXXXX
純水	: Elix 純水システムを用いて製造した水

3.14.2.2 使用機器

名称	型式	製造業者
電子天秤	CPA225D	SARTORIUS K.K.
HPLC	LC-VP シリーズ	
UV 検出器	SPD-20A	株式会社島津製作所
データ処理装置	LC solution	
超音波洗浄器	ASU-3	アズワン株式会社
Elix 純水装置システム	Elix UV3	日本ミリポア株式会社

3.14.3 試薬溶液の調製

3.14.3.1 0.2%りん酸水溶液

りん酸 2 mL、0.5 mL 又は 1 mL に純水を加えて、全量を 1000 mL、250 mL 又は 500 mL とした。

3.14.3.2 移動相 [アセトニトリル/0.2%りん酸水溶液 (50 : 50)]

アセトニトリル及び0.2%りん酸水溶液を 50 : 50 (v/v) の割合で混合し、超音波洗浄器で脱気を行ったものを移動相とした。

3.14.3.3 希釈液

アセトニトリル及び純水を 50 : 50 (v/v) の割合で混合した液を希釈液とした。

3.14.4 分析用試料の調製

3.14.4.1 標準原液 (検量線用・QC 用)

標準物質 0.02000 g を精密に量り、アセトニトリルを用いて正確に 20 mL とし、標準原液 (SS、1 mg/mL) とした。

3.14.4.2 検量線用標準溶液

次表に示すように希釈液を用いて正確に希釈し、検量線用標準溶液 (S1~S5) を調製した。

検量線用標準溶液 No.	採取液	採取量 (mL)	全量 (mL)	リナロールオキシド 濃度 ($\mu\text{g/mL}$)
S5	SS	2	20	100
S4	SS	1.5	20	75

S3	SS	1	20	50
S2	S5	4	20	20
S1	S5	2	20	10

3.14.4.3 QC 用試料

次表に示すように希釈液を用いて正確に希釈し、QC 用標準溶液 (QC1~QC3) を調製した。なお、QC1 及び QC2 を QC 用試料とした。

QC 用標準溶液 No.	採取液	採取量 (mL)	全量 (mL)	リナロールオキシド 濃度 ($\mu\text{g}/\text{mL}$)
QC3	SS	2	20	100
QC2	SS	1.5	20	75
QC1	QC3	4	20	20

3.14.4.4 試料前処理法

次表に従い投与液試料を採取して正確に希釈した後、孔径 $0.45 \mu\text{m}$ のフィルター（メルクミリポア マイレックス-LH、ロット番号：XXXXXXXXXX）でろ過したものを測定試料とした。なお、1 次希釈液にはエタノールを、2 次希釈液には希釈液を用いた。

投与液試料 (mg/mL)	1 次希釈		2 次希釈		希釈 倍率	リナロールオキシド 濃度 ($\mu\text{g}/\text{mL}$)
	採取量 (mL)	全量 (mL)	1 次希釈液 採取量 (mL)	全量 (mL)		
0	1	100	2	10	500	0
16	1	100	2	10	500	32
50	1	100	1	10	1000	50
160	1	100	1	25	2500	64

3.14.4.5 測定条件

3.14.4.6 HPLC 条件

カラム	： Develosil ODS-UG-5 (4.6 mm I.D. \times 150 mm、5 μm 、野村化学株式会社) ロット番号： XXXXXXXXXX
移動相	： アセトニトリル/0.2%りん酸水溶液 (50 : 50, v/v)
測定波長	： 210 nm
カラム温度	： 40 $^{\circ}\text{C}$ (測定開始時温度)
サンプルクーラー	： 20 $^{\circ}\text{C}$ (測定開始時温度)
流量	： 1.0 mL/min
試料注入量	： 10 μL

分析時間 : 17 min

3.14.5 システム適合性

システムの適正な稼働を確認するため、検量線用標準溶液 (S3) を測定試料の測定前に HPLC に 3 回注入し、再現性を確認し、リナロールオキシドのピーク面積値の相対標準偏差 (RSD) を算出した。

$$\text{RSD} = (\text{標準偏差} / \text{平均値}) \times 100$$

判定基準：ピーク面積値の RSD が 2.0% 以下

3.14.6 濃度の算出

検量線用標準溶液 (S1~S5、各 n=1) を測定し、得られた検量線用標準溶液のピーク面積値を用いて最小二乗法による一次回帰直線式から検量線 ($Y = aX + b$, Y: ピーク面積値、X: 濃度、重み付け: なし) を作成した。検量線の判定基準は、相関係数 (r) が 0.995 以上、逆回帰値の真度 (相対誤差: RE) が $\pm 10.0\%$ 以内とした。上記の判定基準を満たすとき、測定試料より得られたピーク面積値を検量線に当てはめ、濃度を算出した。希釈して測定した試料は、希釈試料の測定値に希釈倍数を乗じた値を試料の測定濃度とした。また、設定濃度に対する測定濃度の割合を算出した。

$$\text{RE} (\%) = [(\text{測定濃度} - \text{設定濃度}) / \text{設定濃度}] \times 100$$

3.14.7 投与液安定性

保存開始前、冷蔵保存 5 日 + 室温 24 時間後及び冷蔵保存 10 日 + 室温 24 時間後の 16 mg/mL 及び 160 mg/mL 投与液を分析実施法に従って測定し、投与液中の被験物質濃度を算出した。以下の判定基準を満たすとき、投与液中の被験物質は安定であると判断した。

$$\text{投与液安定性} (\%) = (\text{保存後の測定濃度}) / \text{保存開始前の測定濃度} \times 100$$

判定基準：保存開始前の個別値の RE が $\pm 10.0\%$ 以内

投与液安定性 (%) が $100 \pm 10.0\%$ 以内

3.14.8 測定試料実測時の測定系の精度管理方法

試料を測定するときは、検量線用標準溶液 (S1~S5、各 n=1)、QC 用試料 (2 濃度: 20 及び 75 $\mu\text{g}/\text{mL}$ 、各 n=1)、測定試料 (n=1)、QC 用試料 (2 濃度: 20 及び 75 $\mu\text{g}/\text{mL}$ 、各 n=1) の順に測定し、測定法の信頼性を確認した。QC 用試料は、RE が $\pm 10\%$ 以内であるとき適合とした。

3.14.9 データ処理方法

データ処理装置でクロマトグラム、ピーク面積値、測定値、検量線 (重み付け: なし) の相関係数 (r)、検量線の傾き及び y 切片を算出した。

平均値、相対誤差 (RE)、標準偏差 (SD)、相対標準偏差 (RSD)、設定濃度に対する割合及び投与液安定性は表計算ソフト Excel (Microsoft Corporation) を使用した。

3.14.10 数値の取り扱い

数値は (n+1) 桁目を四捨五入して n 桁で表示した。

算出項目	単位	算出桁数
ピーク面積値	μAU·sec	整数
測定値	μg/mL	有効数字 4 桁
	mg/mL	有効数字 4 桁
平均値	個別値の単位にあわせた	個別値と同じ桁数
検量線の相関係数 (r)	—	小数点以下 3 桁
RE	%	小数点以下 1 桁
SD	—	平均値の桁にあわせた
RSD	%	小数点以下 1 桁
設定濃度に対する割合	%	小数点以下 1 桁
投与液安定性	%	小数点以下 1 桁

3.14.11 再測定

再測定は実施しなかった。

4 資料の保管

本試験で発生した試験計画書及び変更書（原本）、最終報告書（原本）、動物、被験物質、飼育環境に関する記録、試験成績、投与液の分析及び QAU の査察に関する記録、標本類、その他本試験に係る記録文書、並びに被験物質保存サンプルは最終報告書提出後 5 年間、XXXXXXXXXX が GLP 適合施設にて保管する。保管期間の満了後の措置については、試験委託者と試験受託者との協議の上、決定する。

5 予見することができなかった試験の信頼性に影響を及ぼす疑いのある事態及び試験計画書に従わなかったこと

- 1) XXXXXXXXXX に実施した、実験 13 週時の摂餌量及び摂水量の測定において、動物番号 02F01 及び 02F02 の摂餌量の値が 105.2 g、動物番号 02M09 及び 02M10 の摂水量の値が -7.3 g であった。摂餌量については同じ週の雌対照群の測定値 (21.4 g～29.6 g) と比較して大幅な高値であり、摂水量についてはマイナスであることから、いずれも異常値と判断し、これらのデータは試験評価から除外した。データの除外はそれぞれ 10 例中の 2 例であることから、試験の評価には影響しないと判断した。
- 2) 250 mg/kg/day 群の雄 1 例の上皮小体が病理組織標本中に存在せず、病理組織学的検査ができなかった。しかしながら、中用量群の 1 例のみであることから毒性評価は可能で、試験の信頼性には影響しないと判断した。

6 試験結果

6.1 生存率及び一般状態

各群の生存動物数を Table 1 に、一般状態を Table 2 に要約した。また個体別の一般状態を Appendix 1 に示した。

雌雄すべての群において死亡はみられず、剖検時の生存率はいずれも 100%であった。

一般状態において、第 1～7 日の投与後に歩行異常が雌雄の 800 mg/kg/day 群で観察された。歩行異常は第 1 日に雄 4 例及び雌 5 例で観察されたが、翌日以降の例数は漸減し、第 8 日以降には観察されなかった。第 8～13 日の投与後には、自発運動の低下が雄の 800 mg/kg/day 群で 0～3 例に観察された。第 15 日以降の投与後には、流涎が雌雄の 800 mg/kg/day 群で各 1～7 例に観察され、雄の 250 mg/kg/day 群でも第 74 日に 1 例で観察された。いずれの所見も、午後の観察時にはすべて消失しており、投与後のみにみられた変化であった。その他の群では異常所見は観察されなかった。

6.2 体重

各群の平均体重を Figure 1 に図示し、平均体重及び標準偏差を Table 3 に示した。また個体別の値を Appendix 2 に示した。

雄の 800 mg/kg/day 群で第 35 日から、250 mg/kg/day 群で第 63 日からいずれも投与終了まで、対照群と比較して体重の有意な低値が継続して認められた。雌の 800 mg/kg/day 群においても、第 84 日に有意な低値が認められた。その他の群においては、投与期間中、雌雄ともに統計学的に有意な差は認められなかった。

6.3 摂餌量

各群の平均摂餌量及び標準偏差を Table 4 に、また個体別の摂餌量を Appendix 3 に示した。

雄の 800 mg/kg/day 群で、第 2 週に対照群と比較して摂餌量の有意な高値が認められ、第 11 週には雄の被験物質投与各群で有意な低値が認められたが、それぞれ 1 週のみの変化であることから、被験物質投与の影響ではないと判断した。250 mg/kg/day 群の雄で第 9 週に、雌で第 3、6 及び 7 週に摂餌量の低値が認められたが、用量との関連性が認められないことから、偶発的な変動と判断した。

その他の群においては、対照群と比較して雌雄ともに統計学的に有意な差は認められなかった。

6.4 摂水量

各群の平均摂水量及び標準偏差を Table 5 に、また個体別の摂水量を Appendix 4 に示した。

雄の 800 mg/kg/day 群で、第 1～8 週に対照群と比較して摂水量の有意な高値又は高値傾向（3 g 以上の増加）が認められた。雌の 800 mg/kg/day 群においても第 11 及び 12 週に有意な高値が認められ、第 1、4、9 及び 13 週には高値傾向が認められた。雌の 250 mg/kg/day 群では、第 3～8 週に有意な低値が認められたが、用量との関連性が認められないことから、偶発的な変動と判断した。

その他の群においては、対照群と比較して雌雄ともに統計学的に有意な差は認められなかった。

6.5 眼科学的検査

各群の眼科学的検査結果を Table 6 に、また個別別の結果を Appendix 5 に示した。

雌雄の対照群及び被験物質投与各群の検査実施動物に異常所見は観察されなかった。

6.6 尿検査

各群の尿検査結果を Table 7 に、また個別別の結果を Appendix 6 に示した。

雄の 800 及び 250 mg/kg/day 群で、対照群と比較してナトリウム(NA)、カリウム(K)及び塩素(CL)の有意な低値又は低値傾向が認められた。雌の 800 及び 250 mg/kg/day 群で、対照群と比較して pH の有意な低値が認められた。雌の 250 mg/kg/day 群では尿量の有意な低値が認められ、80 mg/kg/day 群では蛋白の有意な高値が認められたが、これらの変化については用量との関連性が認められないことから、偶発的な変動と判断した。

その他の群では、対照群と比較して雌雄ともに統計学的に有意な差は認められなかった。

6.7 血液学的検査

各群の血液学的検査結果を Table 8 に、また個別別の結果を Appendix 7 に示した。

雄の 800 mg/kg/day 群で、対照群と比較して血小板数(PLT)の有意な高値が認められた。雌の 800 mg/kg/day 群で、対照群と比較して血色素量(HGB)、平均赤血球血色素濃度(MCHC)、プロトロンビン時間(PT)及び活性化部分トロンボプラスチン時間(APTT)の有意な低値が認められた。

その他の群では、対照群と比較して雌雄ともに統計学的に有意な差は認められなかった。

6.8 血液生化学的検査

各群の血液生化学的検査結果を Table 9 に、また個別別の結果を Appendix 8 に示した。

雌雄の 800 mg/kg/day 群において、 γ -グルタミルトランスペプチダーゼ(γ -GTP)及びマグネシウム(Mg)の有意な高値、ブドウ糖(GLU)の有意な低値が認められ、ブドウ糖の有意な低値は雌の 250 mg/kg/day 群でも認められた。また雄の 800 mg/kg/day 群では、総蛋白(TP)の有意な高値が認められた。雌の 800 mg/kg/day 群では、アルカリフォスファターゼ(ALP)、クレアチニン(CRE)及び A/G 比(A/G)の有意な低値、総コレステロール(T-CHO)及びリン脂質(PL)の有意な高値が認められ、A/G 比の有意な低値は雌の 250 mg/kg/day 群でも認められた。

雌の 250 mg/kg/day 群ではアスパラギン酸アミノトランスフェラーゼ(AST)及び総ビリルビン(T-BIL)の有意な高値が認められたが、用量との関連性が認められないことから、偶発的な変動と判断した。

その他の検査項目においては、雌雄の対照群と被験物質投与各群との間に統計学的に有意な差は認められなかった。

6.9 病理学的検査

6.9.1 肉眼的病理学検査

各群の肉眼的病理学所見を Table 10 に、また個別別の所見を Appendix 9 に示した。

脾臓の副脾及び小腸の憩室が雄の対照群で各1例に、胃の変色点（1個）が雄の800 mg/kg/day群で2例に、腎臓の陥凹部（片側）が雄の250 mg/kg/day群で1例に、卵巣の黒色点（片側、1個）及び子宮角の拡張（両側）が雌の800 mg/kg/day群で各1例にそれぞれ観察されたが、いずれも雌雄の対照群と被験物質投与各群との間に統計学的差異は認められなかった。

その他の器官・組織においては、異常所見は観察されなかった。

6.9.2 器官重量及び器官重量体重比

各群の器官重量（絶対重量）及び器官重量体重比（相対重量）の平均値及び標準偏差をそれぞれ Table 11, 12 に、また個体別の値を Appendix 10, 11 に示した。

雌雄の800 mg/kg/day群及び雄の250 mg/kg/day群において、対照群と比較して剖検時体重の有意な低値が認められた。雄の800 mg/kg/day群において、対照群と比較して脳、心臓及び肺の絶対重量の有意な低値及び相対重量の有意な高値が認められた。雄の250 mg/kg/day群では、脳及び肺の相対重量の有意な高値が認められた。雌の800 mg/kg/day群でも心臓の相対重量の有意な高値が認められた。

肝臓では、雄の被験物質投与各群及び雌の800 mg/kg/day群で相対重量の有意な高値が認められ、雌の800 mg/kg/day群では絶対重量の有意な高値も認められた。腎臓では、雌雄の800 mg/kg/day群及び雄の250 mg/kg/day群で相対重量の有意な高値が認められた。脾臓では、雄の800 mg/kg/day群で絶対重量の有意な低値が認められた。下垂体では、雄の800及び250 mg/kg/day群で相対重量の有意な高値が認められた。甲状腺では、雄の800 mg/kg/day群で相対重量の有意な高値が認められた。副腎では、雄の800及び80 mg/kg/day群で相対重量の有意な高値が認められ、雌の800 mg/kg/day群では絶対及び相対重量の有意な高値が認められた。唾液腺では、雄の800 mg/kg/day群及び雌雄の250 mg/kg/day群で絶対重量の有意な低値が認められた。

その他の器官においては、雌雄の対照群と被験物質投与各群との間に統計学的に有意な差は認められなかった。

6.9.3 病理組織学的検査

各群の病理組織学的所見を Table 13 に要約し、また個体別の所見を Appendix 12 に示した。

肝臓において、小葉周辺性の小滴性脂肪変性（軽微又は軽度）が雌の800 mg/kg/day群で6例に観察され、対照群と比較して発生頻度の有意な高値が認められた。同所見は雄の対照群及び被験物質投与各群でも観察されたが、対照群と被験物質投与群との間に統計学的有意差は認められなかった。また、小葉中心性の肝細胞肥大（軽度）が雌雄の800 mg/kg/day群の全例に観察され、有意な高値を示したが、その他の群では観察されなかった。

腎臓において、顆粒状円柱（軽微～中等度）及び好塩基性尿細管（軽微又は軽度）が雄の被験物質投与各群に観察され、いずれも対照群と比較して発生頻度の有意な高値が認められた。また、硝子滴の蓄積（軽微～中等度）が対照群を含めた雄の全動物で認められ、被験物質投与各群では対照群と比較して発現の程度が有意な高値を示した。

雄全動物の腎臓について、 $\alpha 2u$ -グロブリン免疫組織化学標本を鏡検した結果を Table 14 に要約し、個体別の結果を Appendix 13 に示した。 $\alpha 2u$ -グロブリンの蓄積（軽微～中等度）が対照群を含めた全動物で認められ、被験物質投与各群では対照群と比較して発現の程度が有意な高値を示した。

その他種々の所見が認められたが、いずれも雌雄の対照群と被験物質投与群との間に統計学的有意差は認められなかったことから、被験物質投与に起因した変化ではないと判断した。

なお、肉眼的病理学検査において観察された脾臓の副脾及び小腸の憩室は、病理組織学的にもそれぞれ副脾及び憩室であることが確認され、胃の変色点は腺胃の糜爛、卵巣の黒色点は黄体嚢胞、子宮角の拡張は内腔の拡張であった。腎臓の陥凹部については、対応する病理組織学的所見は観察されなかった。

6.10 投与液中における被験物質の安定性及び濃度確認試験結果

6.10.1 投与液中における被験物質の安定性試験結果

投与液中における被験物質の安定性試験結果を Table 15 に示した。

16 mg/mL 投与液の冷蔵保存 5 日＋室温 24 時間後及び冷蔵保存 10 日＋室温 24 時間後の分析値は、保存開始前の分析値に対してそれぞれ 99.8 %及び 99.3 %、160 mg/mL 投与液の分析値は、保存開始前の分析値に対してそれぞれ 100.8 %及び 101.7 %で、いずれも許容範囲内（保存開始前の分析値の±10%以内）であり、冷蔵保存 10 日＋室温 24 時間安定であることが示された。

6.10.2 投与液中における被験物質の濃度確認試験結果

投与液中における被験物質の濃度確認試験結果を Table 16 に示した。

初回及び最終回調製時の濃度確認試験では、16、50 並びに 160 mg/mL 投与液の分析値は、それぞれ設定値の 105.6 %及び 105.4 %、103.3 %及び 104.0 %、並びに 103.1 %及び 104.1 %であり、いずれも許容範囲内（設定値の±10 %以内）であり、適正に調製されていることを確認した。

6.10.3 投与液分析時の精度管理結果

システム適合性、検量線及び QC サンプルの分析結果をそれぞれ Table 17, 18, 19 に示した。

検量線の相関係数、RE(%)及び RSD(%)のすべての結果が判定基準内であり、測定法の信頼性が確認された。

7 考察及び結論

本試験において、被験物質のリナロールオキシドを 0 (対照)、80、250 及び 800 mg/kg/day の用量で、CrI:CD(SD)系ラットの雌雄各群 10 匹に 90 日間強制経口投与し、反復投与による毒性影響を検討した。

雌雄すべての群において死亡はみられず、剖検時の生存率はいずれも 100%であった。

摂餌量、眼科学的検査及び肉眼的病理学検査においては、被験物質投与の影響は認められなかった。

一般状態では、雌雄の 800 mg/kg/day 群で投与後に歩行異常、自発運動の低下（雄のみ）又は流涎（雄の 250 mg/kg/day 群の 1 例を含む）が観察された。被験物質の類縁物質であるリナロールは、

精油の成分の一種として知られているモノテルペンアルコール類であり、鎮静作用を有するとされている²⁾ことから、歩行異常及び自発運動の低下については、リナロールの鎮静作用に関連した変化と考えられた。流涎については、投与後のみの変化であったこと及び被験物質が香料であることから、被験物質の刺激に対する反応と考えられた。また、雌雄の 800 mg/kg/day 群において摂水量の有意な高値又は高値傾向が認められたことについても、被験物質の刺激に対する反応と考えられ、毒性影響を示唆するものではないと判断した。

体重では、雄の 800 及び 250 mg/kg/day 群でそれぞれ第 35 及び 63 日以降に有意な低値が認められ、雌の 800 mg/kg/day 群においても、第 84 日に有意な低値が認められ、被験物質の毒性影響が示唆された。

尿検査では、雄の 800 及び 250 mg/kg/day 群で、NA、K 及び CL の有意な低値又は低値傾向が認められた。通常、腎障害では NA 及び CL は同じように変動し、K は相反する変動を示すが、本試験ではすべて低値を示していることから、毒性学的意義の乏しい変化と判断した。雌の 800 及び 250 mg/kg/day 群では、pH の有意な低値が認められた。雌の被験物質投与群では腎臓の病理組織学的変化はみられておらず、また一般に尿沈渣における結晶と尿 pH との関連性が知られているにもかかわらず、本試験では尿 pH と結晶との相関がみられないことから、尿 pH の変化は偶発的な変動と判断した。

血液学的検査では、雄の 800 mg/kg/day 群で PLT の有意な高値が認められ、雌の 800 mg/kg/day 群では、HGB、MCHC、PT 及び APTT の有意な低値が認められたが、病理組織学的に造血器系組織には被験物質投与に起因した変化は認められなかった。さらに PLT、PT 及び APTT の変化に関しては、病理組織学的検査において血栓形成などの変化は認められておらず、HGB 及び MCHC の変化に関しては、RBC の低値若しくは RET の高値などを伴っていないことから、いずれも毒性学的意義の乏しい変化と判断した。

血液生化学的検査、器官重量及び病理組織学的検査においては、肝臓及び腎臓に対する影響が示唆された。

肝臓に関連する変化として、雄の被験物質投与各群及び雌の 800 mg/kg/day 群で肝相対重量の有意な増加が認められ、病理組織学的には、雌雄の 800 mg/kg/day 群の全例で小葉中心性肝細胞肥大が観察された。雌の 800 mg/kg/day 群では小葉周辺性の小滴性脂肪変性の発生頻度の有意な高値が認められ、血液生化学的検査では、T-CHO 及び PL の有意な高値が認められた。さらに雌雄の 800 mg/kg/day 群において、 γ -GTP の有意な高値が認められた。肝細胞肥大は生体の恒常性が維持されている場合であれば適応性変化であり、毒性影響ではないと考えられている³⁾が、本試験では脂質代謝系及び胆道系への影響を示唆する変化が認められたことから、これらの変化については被験物質の毒性影響と判断した。また、雌雄の 800 mg/kg/day 群及び雌の 250 mg/kg/day 群で認められた GLU の低値、雄の 800 mg/kg/day 群で認められた TP の高値についても、肝機能への影響に関連する変化と判断した。

腎臓に関連する変化として、雌雄の 800 mg/kg/day 群及び雄の 250 mg/kg/day 群で相対重量の有意な高値が認められ、さらに血液生化学的検査では、雌雄の 800 mg/kg/day 群において Mg の有意な高値が認められたことから、被験物質の腎機能への影響が示唆された。病理組織学的には、雄

の被験物質投与各群で顆粒状円柱及び好塩基性尿細管が認められ、有意な高値を示した。また、被験物質投与各群で硝子滴の蓄積の程度が有意な高値を示したが、 $\alpha 2u$ -グロブリン免疫組織化学標本の鏡検結果から、硝子滴は $\alpha 2u$ -グロブリンであると考えられた。リナロールと同じモノテルペンアルコール類であり、ホップなどに含まれる成分として知られている β -ミルセンは、雄 F344 ラットの腎臓において、90 日間の反復経口投与により $\alpha 2u$ -グロブリンの蓄積及びそれに伴う慢性進行性腎症の程度の増強や、顆粒状円柱の発生が認められたと報告されている⁴⁾。したがって、本試験で認められた顆粒状円柱及び好塩基性尿細管についても、 $\alpha 2u$ -グロブリンの蓄積に伴う変化と考えられた。 $\alpha 2u$ -グロブリンはヒトでは産生されず、腎臓への蓄積は雄ラットでみられる特異的な変化⁵⁾であり、ヒトには外挿できないとされていることから、雄の被験物質投与各群の腎臓で認められた病理組織学的変化については、いずれも毒性学的意義の乏しい変化と判断した。

その他の変化として、血液生化学的検査では、雌の 800 mg/kg/day 群で ALP 及び CRE の有意な低値が認められたが、低値であることから、毒性学的意義の乏しい変化と判断した。雌の 800 及び 250 mg/kg/day 群で A/G の低値が認められたが、TP 及び ALB に有意な変化は認められないことから、同群の ALB がわずかに低いことに伴う変化と判断した。器官重量において、脳、心臓、肺、脾臓及び唾液腺の絶対重量の有意な低値が認められたが、いずれも相対重量は高値若しくは差が認められないことから、これらの変化については、剖検時体重の低値に伴う変化と判断した。また、下垂体、甲状腺及び副腎で認められた変化については、各器官において被験物質の影響を示唆する病理組織学的変化がみられなかったことから、毒性学的意義の乏しい変化と判断した。

以上、CrI:CD(SD)ラット雌雄に 0 (対照)、80、250 及び 800 mg/kg/day の用量でリナロールオキシドを 90 日間強制経口投与した結果、神経系、肝臓及び腎臓への影響が示唆された。雄の 800 及び 250 mg/kg/day 群で体重の有意な低値が認められ、雌の 800 及び 250 mg/kg/day 群において、肝機能と関連するパラメータの有意な変化が認められたことから、本試験条件下におけるリナロールオキシドの無毒性量 (NOAEL) は、雌雄ともに 80 mg/kg/day と判断された。

8 文献

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9 図及び総括表

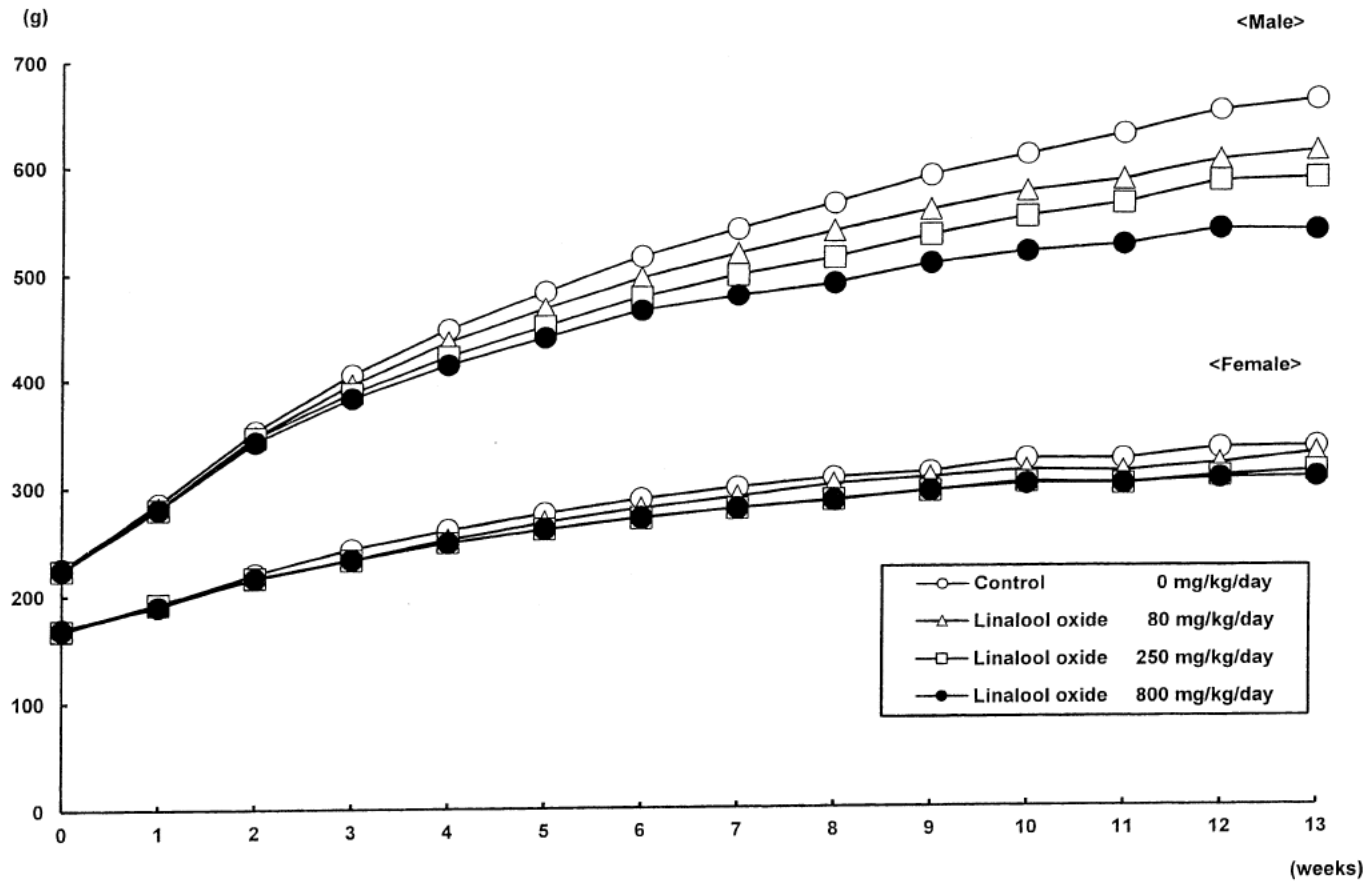


Figure 1 Group mean body weight

Table 1 Survival rate - Weekly

Sex	Test article	Dose (mg/kg/day)	Week				
			1	2	3	4	5
Male	Control	0	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	80	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	250	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	800	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
Female	Control	0	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	80	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	250	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	800	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)

Sex	Test article	Dose (mg/kg/day)	Week				
			6	7	8	9	10
Male	Control	0	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	80	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	250	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	800	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
Female	Control	0	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	80	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	250	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	800	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)

Sex	Test article	Dose (mg/kg/day)	Week			
			11	12	13	14
Male	Control	0	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	80	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	250	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	800	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
Female	Control	0	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	80	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	250	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)
	Linalool oxide	800	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)	10 / 10 (100.0)

Number of surviving / Total number of animals (Survival rate)



Table 2 General condition

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					1(AM)	1(PM)	2(AM)	2(PM)	3(AM)	3(PM)	4(AM)	4(PM)
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		6	10	7	10	8	10	9	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		4	0	3	0	2	0	1	0
				Salivation		0	0	0	0	0	0	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					5(AM)	5(PM)	6(AM)	6(PM)	7(AM)	7(PM)	8(AM)	8(PM)
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		9	10	8	10	9	10	9	10
			Decrease in locomotor activity		0	0	0	0	0	0	1	0
			Abnormal gait		1	0	2	0	1	0	0	0
			Salivation		0	0	0	0	0	0	0	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					9(AM)	9(PM)	10(AM)	10(PM)	11(AM)	11(PM)	12(AM)	12(PM)	
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		9	10	9	10	9	10	10	10	10
			Decrease in locomotor activity		1	0	1	0	1	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0	0
			Salivation		0	0	0	0	0	0	0	0	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					13(AM)	13(PM)	14(AM)	14(PM)	15(AM)	15(PM)	16(AM)	16(PM)
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		7	10	10	10	5	10	7	10
			Decrease in locomotor activity		3	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		0	0	0	0	5	0	3	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					17(AM)	17(PM)	18(AM)	18(PM)	19(AM)	19(PM)	20(AM)	20(PM)	
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10	
			Normal		10	10	10	10	10	10	10	10	
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	
			Normal		10	10	10	10	10	10	10	10	
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	
			Normal		10	10	10	10	10	10	10	10	
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	
			Normal		5	10	7	10	6	10	7	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0	0
			Salivation		5	0	3	0	4	0	3	0	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					21(AM)	21(PM)	22(AM)	22(PM)	23(AM)	23(PM)	24(AM)	24(PM)
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		7	10	5	10	5	10	4	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		3	0	5	0	5	0	6	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					25(AM)	25(PM)	26(AM)	26(PM)	27(AM)	27(PM)	28(AM)	28(PM)	
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10	
			Normal		10	10	10	10	10	10	10	10	
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	
			Normal		10	10	10	10	10	10	10	10	
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	
			Normal		10	10	10	10	10	10	10	10	
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	
			Normal		4	10	5	10	4	10	6	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0	0
			Salivation		6	0	5	0	6	0	4	0	0

Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					29(AM)	29(PM)	30(AM)	30(PM)	31(AM)	31(PM)	32(AM)	32(PM)	
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		4	10	4	10	4	10	3	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	
			Abnormal gait		0	0	0	0	0	0	0	0	
			Salivation		6	0	6	0	6	0	7	0	



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					33(AM)	33(PM)	34(AM)	34(PM)	35(AM)	35(PM)	36(AM)	36(PM)
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		3	10	4	10	5	10	3	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		7	0	6	0	5	0	7	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					37(AM)	37(PM)	38(AM)	38(PM)	39(AM)	39(PM)	40(AM)	40(PM)	
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		5	10	3	10	4	10	7	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	
			Abnormal gait		0	0	0	0	0	0	0	0	
			Salivation		5	0	7	0	6	0	3	0	



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					41(AM)	41(PM)	42(AM)	42(PM)	43(AM)	43(PM)	44(AM)	44(PM)	
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		7	10	5	10	4	10	4	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	
			Abnormal gait		0	0	0	0	0	0	0	0	
			Salivation		3	0	5	0	6	0	6	0	



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					45(AM)	45(PM)	46(AM)	46(PM)	47(AM)	47(PM)	48(AM)	48(PM)
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		4	10	4	10	5	10	4	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		6	0	6	0	5	0	6	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					49(AM)	49(PM)	50(AM)	50(PM)	51(AM)	51(PM)	52(AM)	52(PM)
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		5	10	6	10	5	10	6	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		5	0	4	0	5	0	4	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					53(AM)	53(PM)	54(AM)	54(PM)	55(AM)	55(PM)	56(AM)	56(PM)
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		4	10	4	10	6	10	4	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		6	0	6	0	4	0	6	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					57(AM)	57(PM)	58(AM)	58(PM)	59(AM)	59(PM)	60(AM)	60(PM)
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		6	10	7	10	6	10	5	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		4	0	3	0	4	0	5	0

Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					61(AM)	61(PM)	62(AM)	62(PM)	63(AM)	63(PM)	64(AM)	64(PM)
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		5	10	6	10	6	10	7	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		5	0	4	0	4	0	3	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					65(AM)	65(PM)	66(AM)	66(PM)	67(AM)	67(PM)	68(AM)	68(PM)
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		7	10	7	10	5	10	5	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		3	0	3	0	5	0	5	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					69(AM)	69(PM)	70(AM)	70(PM)	71(AM)	71(PM)	72(AM)	72(PM)
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		6	10	5	10	5	10	5	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		4	0	5	0	5	0	5	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					73(AM)	73(PM)	74(AM)	74(PM)	75(AM)	75(PM)	76(AM)	76(PM)
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	9	10	10	10	10	10
			Salivation		0	0	1	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		5	10	4	10	5	10	4	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		5	0	6	0	5	0	6	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					77(AM)	77(PM)	78(AM)	78(PM)	79(AM)	79(PM)	80(AM)	80(PM)	
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		6	10	8	10	6	10	6	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	
			Abnormal gait		0	0	0	0	0	0	0	0	
			Salivation		4	0	2	0	4	0	4	0	



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					81(AM)	81(PM)	82(AM)	82(PM)	83(AM)	83(PM)	84(AM)	84(PM)
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		5	10	5	10	6	10	5	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		5	0	5	0	4	0	5	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					85(AM)	85(PM)	86(AM)	86(PM)	87(AM)	87(PM)	88(AM)	88(PM)	
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		5	10	7	10	7	10	6	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	
			Abnormal gait		0	0	0	0	0	0	0	0	
			Salivation		5	0	3	0	3	0	4	0	



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					89(AM)	89(PM)	90(AM)	90(PM)	91(AM)	91(PM)	92(AM)	92(PM)
Male	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		8	10	9	10	8	10	10	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		2	0	1	0	2	0	0	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day 93(AM)
Male	Control	0	No. of animals		
			Normal		
	Linalool oxide	80	No. of animals		
			Normal		
	Linalool oxide	250	No. of animals		
			Normal		
			Salivation		
	Linalool oxide	800	No. of animals		
			Normal		
			Decrease in locomotor activity		
			Abnormal gait		
			Salivation		



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					1(AM)	1(PM)	2(AM)	2(PM)	3(AM)	3(PM)	4(AM)	4(PM)	
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		5	10	7	10	8	10	8	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	
			Abnormal gait		5	0	3	0	2	0	2	0	
				Salivation		0	0	0	0	0	0	0	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					5(AM)	5(PM)	6(AM)	6(PM)	7(AM)	7(PM)	8(AM)	8(PM)
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		9	10	9	10	9	10	10	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		1	0	1	0	1	0	0	0
			Salivation		0	0	0	0	0	0	0	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					9(AM)	9(PM)	10(AM)	10(PM)	11(AM)	11(PM)	12(AM)	12(PM)
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		0	0	0	0	0	0	0	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					13(AM)	13(PM)	14(AM)	14(PM)	15(AM)	15(PM)	16(AM)	16(PM)
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	6	10	7	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		0	0	0	0	4	0	3	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings (Frequency or time)	Day								
				17(AM)	17(PM)	18(AM)	18(PM)	19(AM)	19(PM)	20(AM)	20(PM)	
Female	Control	0	No. of animals	10	10	10	10	10	10	10	10	10
			Normal	10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals	10	10	10	10	10	10	10	10	10
			Normal	10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals	10	10	10	10	10	10	10	10	10
			Normal	10	10	10	10	10	10	10	10	10
			Salivation	0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals	10	10	10	10	10	10	10	10	10
			Normal	9	10	8	10	8	10	7	10	
			Decrease in locomotor activity	0	0	0	0	0	0	0	0	
			Abnormal gait	0	0	0	0	0	0	0	0	
			Salivation	1	0	2	0	2	0	3	0	



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					21(AM)	21(PM)	22(AM)	22(PM)	23(AM)	23(PM)	24(AM)	24(PM)	
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10	
			Normal		10	10	10	10	10	10	10	10	
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	
			Normal		10	10	10	10	10	10	10	10	
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	
			Normal		10	10	10	10	10	10	10	10	
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	
			Normal		7	10	5	10	7	10	6	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0	0
			Salivation		3	0	5	0	3	0	4	0	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					25(AM)	25(PM)	26(AM)	26(PM)	27(AM)	27(PM)	28(AM)	28(PM)
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		6	10	7	10	8	10	9	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		4	0	3	0	2	0	1	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					29(AM)	29(PM)	30(AM)	30(PM)	31(AM)	31(PM)	32(AM)	32(PM)
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		7	10	5	10	6	10	4	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		3	0	5	0	4	0	6	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					33(AM)	33(PM)	34(AM)	34(PM)	35(AM)	35(PM)	36(AM)	36(PM)	
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10	
			Normal		10	10	10	10	10	10	10	10	
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	
			Normal		10	10	10	10	10	10	10	10	
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	
			Normal		10	10	10	10	10	10	10	10	
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	
			Normal		6	10	6	10	7	10	6	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0	0
			Salivation		4	0	4	0	3	0	4	0	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					37(AM)	37(PM)	38(AM)	38(PM)	39(AM)	39(PM)	40(AM)	40(PM)
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		8	10	8	10	8	10	8	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		2	0	2	0	2	0	2	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					41(AM)	41(PM)	42(AM)	42(PM)	43(AM)	43(PM)	44(AM)	44(PM)	
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		8	10	6	10	8	10	8	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	
			Abnormal gait		0	0	0	0	0	0	0	0	
			Salivation		2	0	4	0	2	0	2	0	



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					45(AM)	45(PM)	46(AM)	46(PM)	47(AM)	47(PM)	48(AM)	48(PM)	
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		8	10	8	10	8	10	8	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	
			Abnormal gait		0	0	0	0	0	0	0	0	
			Salivation		2	0	2	0	2	0	2	0	



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					49(AM)	49(PM)	50(AM)	50(PM)	51(AM)	51(PM)	52(AM)	52(PM)	
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		8	10	7	10	3	10	4	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	
			Abnormal gait		0	0	0	0	0	0	0	0	
			Salivation		2	0	3	0	7	0	6	0	



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					53(AM)	53(PM)	54(AM)	54(PM)	55(AM)	55(PM)	56(AM)	56(PM)
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		6	10	6	10	6	10	7	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		4	0	4	0	4	0	3	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day							
					57(AM)	57(PM)	58(AM)	58(PM)	59(AM)	59(PM)	60(AM)	60(PM)
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10
			Normal		5	10	5	10	5	10	7	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0
			Salivation		5	0	5	0	5	0	3	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					61(AM)	61(PM)	62(AM)	62(PM)	63(AM)	63(PM)	64(AM)	64(PM)	
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		7	10	7	10	7	10	7	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	
			Abnormal gait		0	0	0	0	0	0	0	0	
			Salivation		3	0	3	0	3	0	3	0	



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					65(AM)	65(PM)	66(AM)	66(PM)	67(AM)	67(PM)	68(AM)	68(PM)	
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		7	10	7	10	6	10	6	10	10
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	0
			Abnormal gait		0	0	0	0	0	0	0	0	0
			Salivation		3	0	3	0	4	0	4	0	0



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					69(AM)	69(PM)	70(AM)	70(PM)	71(AM)	71(PM)	72(AM)	72(PM)	
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		6	10	6	10	6	10	6	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	
			Abnormal gait		0	0	0	0	0	0	0	0	
			Salivation		4	0	4	0	4	0	4	0	



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					73(AM)	73(PM)	74(AM)	74(PM)	75(AM)	75(PM)	76(AM)	76(PM)	
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		6	10	6	10	7	10	4	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	
			Abnormal gait		0	0	0	0	0	0	0	0	
			Salivation		4	0	4	0	3	0	6	0	



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					77(AM)	77(PM)	78(AM)	78(PM)	79(AM)	79(PM)	80(AM)	80(PM)	
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		8	10	6	10	7	10	8	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	
			Abnormal gait		0	0	0	0	0	0	0	0	
			Salivation		2	0	4	0	3	0	2	0	



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					81(AM)	81(PM)	82(AM)	82(PM)	83(AM)	83(PM)	84(AM)	84(PM)	
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		6	10	6	10	7	10	6	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	
			Abnormal gait		0	0	0	0	0	0	0	0	
			Salivation		4	0	4	0	3	0	4	0	



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					85(AM)	85(PM)	86(AM)	86(PM)	87(AM)	87(PM)	88(AM)	88(PM)	
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		6	10	8	10	8	10	9	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	
			Abnormal gait		0	0	0	0	0	0	0	0	
			Salivation		4	0	2	0	2	0	1	0	



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings	(Frequency or time)	Day								
					89(AM)	89(PM)	90(AM)	90(PM)	91(AM)	91(PM)	92(AM)	92(PM)	
Female	Control	0	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	80	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
	Linalool oxide	250	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		10	10	10	10	10	10	10	10	10
			Salivation		0	0	0	0	0	0	0	0	0
	Linalool oxide	800	No. of animals		10	10	10	10	10	10	10	10	10
			Normal		9	10	9	10	9	10	9	10	
			Decrease in locomotor activity		0	0	0	0	0	0	0	0	
			Abnormal gait		0	0	0	0	0	0	0	0	
			Salivation		1	0	1	0	1	0	1	0	



Table 2 General condition (Continued)

Sex	Test article	Dose (mg/kg/day)	Findings (Frequency or time)	Day 93(AM)
Female	Control	0	No. of animals	10
			Normal	10
	Linalool oxide	80	No. of animals	10
			Normal	10
	Linalool oxide	250	No. of animals	10
			Normal	10
			Salivation	0
	Linalool oxide	800	No. of animals	10
			Normal	10
			Decrease in locomotor activity	0
			Abnormal gait	0
			Salivation	0

Table 3 Body weights (g) - Group mean values (mean ± S.D.)

Sex	Test article	Dose (mg/kg/day)	No. of animals	Initial B.W.	Day		
					7	14	21
Male	Control	0	10	225.9 ± 5.6	285.8 ± 10.8	352.0 ± 16.3	405.1 ± 22.3
	Linalool oxide	80	10	224.0 ± 6.8	282.0 ± 11.9	346.8 ± 23.0	395.7 ± 32.1
	Linalool oxide	250	10	223.9 ± 5.6	280.1 ± 9.7	346.1 ± 12.4	387.6 ± 21.8
	Linalool oxide	800	10	224.4 ± 4.8	280.4 ± 8.6	341.7 ± 16.9	382.5 ± 22.9
Female	Control	0	10	169.3 ± 8.7	191.2 ± 12.8	220.8 ± 13.2	243.3 ± 16.3
	Linalool oxide	80	10	166.8 ± 5.5	191.2 ± 11.0	215.7 ± 11.7	233.0 ± 12.0
	Linalool oxide	250	10	167.8 ± 5.9	192.6 ± 8.0	217.0 ± 13.5	233.0 ± 16.7
	Linalool oxide	800	10	168.2 ± 5.6	189.7 ± 7.5	216.2 ± 11.1	233.3 ± 13.7

Sex	Test article	Dose (mg/kg/day)	No. of animals	Day 28	Day		
					35	42	49
Male	Control	0	10	448.0 ± 27.4	483.4 ± 28.1	515.6 ± 32.7	540.5 ± 31.9
	Linalool oxide	80	10	435.8 ± 41.6	467.3 ± 51.7	495.9 ± 55.8	518.0 ± 61.9
	Linalool oxide	250	10	421.9 ± 28.0	450.5 ± 28.7	478.0 ± 29.8	498.0 ± 32.5
	Linalool oxide	800	10	414.0 ± 30.5	439.3 ± 36.4 *	465.0 ± 40.8 *	478.8 ± 43.0 **
Female	Control	0	10	261.0 ± 17.4	275.3 ± 19.1	288.5 ± 20.4	298.8 ± 19.1
	Linalool oxide	80	10	251.9 ± 13.8	267.5 ± 14.2	279.9 ± 12.9	290.1 ± 16.0
	Linalool oxide	250	10	249.2 ± 21.0	261.2 ± 25.3	270.9 ± 23.7	279.5 ± 23.2
	Linalool oxide	800	10	248.7 ± 13.1	261.2 ± 11.0	271.2 ± 15.2	279.5 ± 17.1

Sex	Test article	Dose (mg/kg/day)	No. of animals	Day 56	Day		
					63	70	77
Male	Control	0	10	563.6 ± 35.4	589.6 ± 39.5	609.3 ± 40.3	628.5 ± 40.0
	Linalool oxide	80	10	538.3 ± 66.0	557.6 ± 69.9	574.6 ± 73.8	585.4 ± 72.1
	Linalool oxide	250	10	513.9 ± 34.5	534.5 ± 36.7 *	550.9 ± 39.4 *	563.0 ± 39.1 *
	Linalool oxide	800	10	490.2 ± 43.9 **	508.1 ± 46.5 **	518.8 ± 45.2 **	525.0 ± 45.6 **
Female	Control	0	10	307.6 ± 22.0	312.5 ± 24.5	324.3 ± 27.7	324.1 ± 30.0
	Linalool oxide	80	10	301.4 ± 21.5	307.6 ± 22.3	314.2 ± 22.5	313.0 ± 27.7
	Linalool oxide	250	10	287.0 ± 27.4	294.8 ± 30.5	302.8 ± 27.7	301.0 ± 31.6
	Linalool oxide	800	10	286.2 ± 16.0	295.0 ± 13.7	301.2 ± 17.7	301.1 ± 15.9

Significantly different from the control group ; *:p≤0.05, **:p≤0.01 (Dunnett test)

Table 3 Body weights (g) - Group mean values (mean ± S.D.) (Continued)

Sex	Test article	Dose (mg/kg/day)	No. of animals	Day 84	91
Male	Control	0	10	650.6 ± 40.2	660.6 ± 42.2
	Linalool oxide	80	10	603.8 ± 74.5	612.3 ± 76.8
	Linalool oxide	250	10	584.0 ± 39.5 *	586.6 ± 42.9 *
	Linalool oxide	800	10	539.4 ± 46.4 **	538.1 ± 46.5 **
Female	Control	0	10	334.3 ± 26.9	335.4 ± 31.3
	Linalool oxide	80	10	320.0 ± 25.1	329.4 ± 26.3
	Linalool oxide	250	10	308.1 ± 29.8	312.9 ± 27.2
	Linalool oxide	800	10	306.2 ± 18.2 *	307.1 ± 17.7

Significantly different from the control group ; *:p≤0.05, **:p≤0.01 (Dunnett test)

Table 4 Food consumption (g/animal/day) - Group mean values (mean \pm S.D.)

Sex	Test article	Dose (mg/kg/day)	No. of animals	Week -1	1	2	3	4
Male	Control	0	10	21.7 \pm 1.0	23.2 \pm 1.0	23.8 \pm 1.3	23.8 \pm 1.6	22.7 \pm 1.4
	Linalool oxide	80	10	22.2 \pm 1.1	23.2 \pm 1.5	24.1 \pm 2.2	23.8 \pm 2.2	22.8 \pm 2.3
	Linalool oxide	250	10	22.1 \pm 1.0	23.0 \pm 0.6	24.4 \pm 0.8	22.8 \pm 1.5	21.9 \pm 1.5
	Linalool oxide	800	10	22.2 \pm 0.7	24.1 \pm 1.0	25.2 \pm 1.0 #	23.9 \pm 1.6	23.3 \pm 1.5
Female	Control	0	10	16.9 \pm 1.5	14.5 \pm 1.1	15.5 \pm 0.9	16.5 \pm 1.6	15.4 \pm 0.5
	Linalool oxide	80	10	16.6 \pm 0.6	15.5 \pm 1.4	15.9 \pm 0.7	15.4 \pm 0.9	16.4 \pm 1.7
	Linalool oxide	250	10	16.9 \pm 1.0	15.3 \pm 0.7	15.3 \pm 1.8	14.5 \pm 1.4 **	14.5 \pm 2.1
	Linalool oxide	800	10	16.4 \pm 1.1	15.3 \pm 1.5	15.0 \pm 0.8	15.8 \pm 0.9	16.3 \pm 1.3

Sex	Test article	Dose (mg/kg/day)	No. of animals	Week 5	6	7	8	9
Male	Control	0	10	22.3 \pm 1.0	22.3 \pm 1.1	22.2 \pm 1.1	21.2 \pm 1.4	23.3 \pm 1.6
	Linalool oxide	80	10	22.3 \pm 3.1	21.8 \pm 2.0	21.1 \pm 1.6	20.5 \pm 1.9	21.8 \pm 2.2
	Linalool oxide	250	10	21.6 \pm 1.2	21.4 \pm 0.8	21.4 \pm 1.4	19.8 \pm 2.2	20.5 \pm 2.0 **
	Linalool oxide	800	10	22.7 \pm 1.8	22.4 \pm 1.5	21.3 \pm 1.2	20.4 \pm 1.5	21.6 \pm 1.5
Female	Control	0	10	16.3 \pm 1.8	15.4 \pm 0.7	15.6 \pm 0.7	13.7 \pm 1.1	14.2 \pm 0.3
	Linalool oxide	80	10	16.1 \pm 1.1	15.7 \pm 1.4	15.2 \pm 1.4	14.6 \pm 1.8	14.0 \pm 1.5
	Linalool oxide	250	10	14.7 \pm 1.0	14.0 \pm 1.0 *	14.1 \pm 1.6 *	12.6 \pm 1.5	13.5 \pm 1.3
	Linalool oxide	800	10	15.8 \pm 2.1	14.4 \pm 1.3	14.6 \pm 1.0	13.5 \pm 0.7	13.8 \pm 1.2

Sex	Test article	Dose (mg/kg/day)	No. of animals	Week 10	11	12	13
Male	Control	0	10	18.4 \pm 1.4	22.7 \pm 2.1	21.0 \pm 1.4	19.9 \pm 1.6
	Linalool oxide	80	10	18.3 \pm 1.3	20.1 \pm 1.6 **	20.8 \pm 1.8	19.7 \pm 1.8
	Linalool oxide	250	10	18.6 \pm 1.0	19.7 \pm 1.3 **	20.0 \pm 1.2	19.6 \pm 1.0
	Linalool oxide	800	10	18.9 \pm 1.3	20.0 \pm 1.0 **	20.3 \pm 0.8	20.0 \pm 1.4
Female	Control	0	10	12.6 \pm 0.8	12.5 \pm 1.8	13.2 \pm 0.9	12.9 \pm 1.4
	Linalool oxide	80	10	12.1 \pm 1.0	11.6 \pm 1.6	12.7 \pm 1.4	13.9 \pm 1.8 (8)
	Linalool oxide	250	10	12.2 \pm 1.3	11.8 \pm 1.4	13.3 \pm 1.1	13.1 \pm 1.8
	Linalool oxide	800	10	11.7 \pm 1.2	13.8 \pm 0.5	12.7 \pm 1.0	13.3 \pm 1.1

Significantly different from the control group ; *: $p \leq 0.05$, **: $p \leq 0.01$ (Dunnett test)

Significantly different from the control group ; #: $p \leq 0.05$ (Steel test)

Number in parentheses indicates the number of animals examined

Table 5 Water consumption (g/animal/day) - Group mean values (mean ± S.D.)

Sex	Test article	Dose (mg/kg/day)	No. of animals	Week -1	1	2	3	4
Male	Control	0	10	30.1 ± 2.3	32.1 ± 2.1	34.6 ± 3.8	37.1 ± 4.9	36.5 ± 4.1
	Linalool oxide	80	10	31.5 ± 1.5	33.3 ± 1.8	35.4 ± 2.8	37.1 ± 3.3	38.6 ± 2.9
	Linalool oxide	250	10	31.8 ± 3.2	33.8 ± 3.9	36.8 ± 2.8	38.1 ± 3.2	39.5 ± 4.2
	Linalool oxide	800	10	31.6 ± 3.2	35.8 ± 3.4 *	41.3 ± 4.4 **	40.9 ± 5.5	41.8 ± 6.2 *
Female	Control	0	10	26.0 ± 2.5	24.1 ± 3.5	25.3 ± 4.0	27.6 ± 5.7	27.2 ± 4.1
	Linalool oxide	80	10	24.9 ± 1.7	24.5 ± 3.7	26.6 ± 3.3	25.5 ± 4.1	27.6 ± 2.6
	Linalool oxide	250	10	25.3 ± 2.1	22.8 ± 1.5	23.1 ± 1.4	22.4 ± 2.3 *	22.4 ± 2.6 #
	Linalool oxide	800	10	25.9 ± 2.5	27.1 ± 3.5	28.0 ± 5.4	27.7 ± 4.4	31.2 ± 8.5

Sex	Test article	Dose (mg/kg/day)	No. of animals	Week 5	6	7	8	9
Male	Control	0	10	37.1 ± 3.9	40.2 ± 6.4	39.1 ± 6.1	39.5 ± 7.5	40.8 ± 6.2
	Linalool oxide	80	10	40.9 ± 3.0	40.1 ± 1.9	38.5 ± 1.4	38.4 ± 2.5	39.4 ± 1.4
	Linalool oxide	250	10	39.5 ± 3.1	39.3 ± 4.6	39.2 ± 4.1	39.7 ± 5.4	40.3 ± 6.1
	Linalool oxide	800	10	42.8 ± 5.3 **	44.0 ± 5.9	42.3 ± 5.6	42.5 ± 5.9	41.8 ± 7.0
Female	Control	0	10	29.8 ± 6.9	29.3 ± 4.7	28.7 ± 3.3	28.2 ± 6.1	27.2 ± 4.9
	Linalool oxide	80	10	27.5 ± 2.6	27.9 ± 2.0	25.9 ± 3.0	27.2 ± 3.1	25.8 ± 2.5
	Linalool oxide	250	10	23.0 ± 3.1 ##	22.4 ± 2.0 ##	23.2 ± 1.9 #	22.1 ± 4.0 *	23.1 ± 4.0
	Linalool oxide	800	10	31.9 ± 11.3	31.4 ± 11.3	31.0 ± 9.0	30.9 ± 7.0	31.2 ± 7.8

Sex	Test article	Dose (mg/kg/day)	No. of animals	Week 10	11	12	13
Male	Control	0	10	31.3 ± 3.5	34.2 ± 4.6	37.6 ± 6.1	36.9 ± 6.7
	Linalool oxide	80	10	31.4 ± 2.8	32.2 ± 2.9	36.2 ± 2.7	34.9 ± 2.3 (8)
	Linalool oxide	250	10	29.5 ± 3.7	33.0 ± 4.3	37.2 ± 3.4	37.6 ± 5.6
	Linalool oxide	800	10	33.3 ± 2.9	36.0 ± 3.3	37.7 ± 5.2	36.4 ± 4.7
Female	Control	0	10	23.3 ± 4.5	24.1 ± 6.2	25.7 ± 3.4	25.6 ± 6.2
	Linalool oxide	80	10	21.0 ± 2.0	21.4 ± 2.7	23.1 ± 3.3	24.5 ± 3.0
	Linalool oxide	250	10	19.5 ± 1.4	19.7 ± 2.7	21.7 ± 4.0	22.2 ± 3.1
	Linalool oxide	800	10	25.6 ± 6.5	31.3 ± 8.8 #	30.6 ± 6.2 *	30.0 ± 6.9

Significantly different from the control group ; *:p≤0.05, **:p≤0.01 (Dunnett test)

Significantly different from the control group ; #:p≤0.05, ##:p≤0.01 (Steel test)

Number in parentheses indicates the number of animals examined

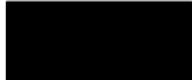


Table 6 Ophthalmoscopic examination

Sex	Male				Female			
	Control	Linalool oxide	Linalool oxide	Linalool oxide	Control	Linalool oxide	Linalool oxide	Linalool oxide
Test article								
Dose (mg/kg/day)	0	80	250	800	0	80	250	800
Number of animals	6	6	6	6	6	6	6	6
Normal	6	6	6	6	6	6	6	6

Table 7 Urinalysis

Sex	Test article	Dose (mg/kg/day)	No. of animals	Glucose					Bilirubin				Ketones					Occult blood						
				-	1+	2+	3+	4+	5+	-	1+	2+	3+	-	±	1+	2+	3+	4+	-	±	1+	2+	3+
Male	Control	0	6	6	0	0	0	0	0	6	0	0	0	1	4	1	0	0	0	6	0	0	0	0
	Linalool oxide	80	6	6	0	0	0	0	0	6	0	0	0	2	4	0	0	0	0	6	0	0	0	0
	Linalool oxide	250	6	6	0	0	0	0	0	6	0	0	0	0	3	3	0	0	0	6	0	0	0	0
	Linalool oxide	800	6	6	0	0	0	0	0	6	0	0	0	2	4	0	0	0	0	6	0	0	0	0
Female	Control	0	6	6	0	0	0	0	0	6	0	0	0	6	0	0	0	0	0	6	0	0	0	0
	Linalool oxide	80	6	6	0	0	0	0	0	6	0	0	0	6	0	0	0	0	0	6	0	0	0	0
	Linalool oxide	250	6	6	0	0	0	0	0	6	0	0	0	6	0	0	0	0	0	6	0	0	0	0
	Linalool oxide	800	6	6	0	0	0	0	0	6	0	0	0	6	0	0	0	0	0	6	0	0	0	0

Sex	Test article	Dose (mg/kg/day)	No. of animals	pH	Protein							Urobilinogen					Color								
					6.0	6.5	7.0	7.5	8.0	8.5	-	±	1+	2+	3+	4+	0.1	1	2	4	8	Py	Ly	Dp	Yr
Male	Control	0	6	0	0	1	3	1	1	2	1	3	0	0	0	6	0	0	0	0	0	6	0	0	
	Linalool oxide	80	6	0	0	0	1	2	3	0	1	5	0	0	0	6	0	0	0	0	0	6	0	0	
	Linalool oxide	250	6	0	1	2	1	0	2	1	2	3	0	0	0	6	0	0	0	0	0	0	6	0	0
	Linalool oxide	800	6	0	2	1	3	0	0	1	3	2	0	0	0	6	0	0	0	0	0	1	5	0	0
Female	Control	0	6	0	0	0	2	2	2	4	1	1	0	0	0	6	0	0	0	0	2	4	0	0	
	Linalool oxide	80	6	1	0	1	1	2	1	0	1	5	0	0	0	6	0	0	0	0	0	6	0	0	
	Linalool oxide	250	6	4	0	0	1	1	0	1	0	5	0	0	0	6	0	0	0	0	0	6	0	0	
	Linalool oxide	800	6	1	2	1	1	1	0	1	4	1	0	0	0	6	0	0	0	0	2	4	0	0	

Py : Pale yellow, Ly : Light yellow, Dp : Deep yellow, Yr : Yellowish red
 Significantly different from the control group ; \$:p≤0.05 (Wilcoxon test)

Table 7 Urinalysis (Continued)

Sex	Test article	Dose (mg/kg/day)	No. of animals	Sediments																			
				Epithelial cells					Crystals					Casts					Erythro- cytes				
				-	±	1+	2+	3+	-	±	1+	2+	3+	-	±	1+	2+	3+	-	±	1+	2+	3+
Male	Control	0	6	4	2	0	0	0	2	1	1	0	2	6	0	0	0	0	6	0	0	0	0
	Linalool oxide	80	6	6	0	0	0	0	2	1	0	0	3	6	0	0	0	0	6	0	0	0	0
	Linalool oxide	250	6	5	1	0	0	0	1	0	4	0	1	6	0	0	0	0	6	0	0	0	0
	Linalool oxide	800	6	6	0	0	0	0	1	1	0	1	3	6	0	0	0	0	6	0	0	0	0
Female	Control	0	6	5	1	0	0	0	2	3	1	0	0	6	0	0	0	0	6	0	0	0	0
	Linalool oxide	80	6	6	0	0	0	0	2	1	3	0	0	6	0	0	0	0	6	0	0	0	0
	Linalool oxide	250	6	6	0	0	0	0	4	1	0	1	0	6	0	0	0	0	6	0	0	0	0
	Linalool oxide	800	6	6	0	0	0	0	3	0	0	2	1	6	0	0	0	0	6	0	0	0	0

Sex	Test article	Dose (mg/kg/day)	No. of animals	Sediments				
				Leuko- cytes				
				-	±	1+	2+	3+
Male	Control	0	6	6	0	0	0	0
	Linalool oxide	80	6	6	0	0	0	0
	Linalool oxide	250	6	6	0	0	0	0
	Linalool oxide	800	6	6	0	0	0	0
Female	Control	0	6	6	0	0	0	0
	Linalool oxide	80	6	6	0	0	0	0
	Linalool oxide	250	6	6	0	0	0	0
	Linalool oxide	800	6	6	0	0	0	0

Not significantly different from the control group



Table 7 Urinalysis - Group mean values (mean \pm S.D.) (Continued)

Sex	Test article	Dose (mg/kg/day)	No. of animals	Specific gravity	Urine volume (in grams)	
Male	Control	0	6	1.057 \pm 0.019	12.4 \pm	5.2
	Linalool oxide	80	6	1.058 \pm 0.008	11.9 \pm	2.2
	Linalool oxide	250	6	1.047 \pm 0.017	13.3 \pm	5.9
	Linalool oxide	800	6	1.055 \pm 0.023	15.7 \pm	9.7
Female	Control	0	6	1.046 \pm 0.021	14.5 \pm	9.1
	Linalool oxide	80	6	1.060 \pm 0.020	9.4 \pm	5.8
	Linalool oxide	250	6	1.072 \pm 0.017	5.3 \pm	1.6 #
	Linalool oxide	800	6	1.054 \pm 0.014	11.6 \pm	4.4

Sex	Test article	Dose (mg/kg/day)	No. of animals	Na	K	Cl
				(mEq/L)	(mEq/L)	(mEq/L)
Male	Control	0	6	117.8 \pm 71.6	273.51 \pm 95.02	131.1 \pm 65.7
	Linalool oxide	80	6	82.4 \pm 21.2	261.49 \pm 54.52	107.5 \pm 21.3
	Linalool oxide	250	6	29.8 \pm 12.8 #	132.07 \pm 44.57 **	43.0 \pm 7.6 #
	Linalool oxide	800	6	52.8 \pm 28.4	105.89 \pm 46.55 **	51.1 \pm 22.0 #
Female	Control	0	6	80.8 \pm 44.6	233.67 \pm 109.06	94.2 \pm 49.5
	Linalool oxide	80	6	104.4 \pm 33.2	304.23 \pm 110.91	127.2 \pm 64.7
	Linalool oxide	250	6	99.8 \pm 52.9	226.08 \pm 86.61	96.8 \pm 41.8
	Linalool oxide	800	6	74.4 \pm 27.7	136.90 \pm 36.51	62.4 \pm 24.1

Significantly different from the control group ; **:p \leq 0.01 (Dunnett test)

Significantly different from the control group ; #:p \leq 0.05 (Steel test)



Table 8 Hematology - Group mean values (mean ± S.D.)

Sex	Test article	Dose (mg/kg/day)	No. of animals	RBC	HCT	HGB	MCH	MCHC
				(x10 ⁴ /μL)	(%)	(g/dL)	(pg)	(g/dL)
Male	Control	0	10	854 ± 33	41.7 ± 1.9	15.1 ± 0.8	17.7 ± 0.6	36.3 ± 0.3
	Linalool oxide	80	10	864 ± 28	41.6 ± 1.6	15.2 ± 0.5	17.6 ± 0.7	36.5 ± 0.5
	Linalool oxide	250	10	880 ± 45	41.0 ± 1.7	15.0 ± 0.4	17.0 ± 0.9	36.6 ± 0.8
	Linalool oxide	800	10	858 ± 43	41.4 ± 2.4	14.8 ± 0.7	17.2 ± 0.5	35.8 ± 0.6
Female	Control	0	10	752 ± 32	39.1 ± 0.4	14.3 ± 0.3	19.1 ± 0.6	36.6 ± 0.5
	Linalool oxide	80	10	751 ± 59	38.9 ± 1.8	14.1 ± 0.6	18.8 ± 0.9	36.1 ± 0.5
	Linalool oxide	250	10	763 ± 20	39.4 ± 0.9	14.3 ± 0.3	18.8 ± 0.4	36.4 ± 0.6
	Linalool oxide	800	10	722 ± 31	38.5 ± 1.1	13.7 ± 0.4 **	19.0 ± 0.6	35.7 ± 0.6 **

Sex	Test article	Dose (mg/kg/day)	No. of animals	MCV	PLT	WBC	Leukocytes, differential	
				(fL)	(x10 ⁴ /μL)	(x10 ³ /μL)	Lympho- cytes (x10 ³ /μL)	Neutro- phils (x10 ³ /μL)
Male	Control	0	10	48.8 ± 1.6	103.7 ± 5.7	112.5 ± 36.3	84.8 ± 29.5	22.1 ± 9.5
	Linalool oxide	80	10	48.2 ± 2.2	108.0 ± 10.4	109.7 ± 32.0	84.1 ± 26.7	19.8 ± 7.6
	Linalool oxide	250	10	46.7 ± 3.4	113.8 ± 10.8	115.8 ± 27.8	88.3 ± 23.1	22.0 ± 7.6
	Linalool oxide	800	10	48.2 ± 1.7	117.5 ± 13.8 *	107.6 ± 20.5	80.8 ± 14.2	21.5 ± 9.0
Female	Control	0	10	52.1 ± 2.2	106.1 ± 8.1	65.1 ± 15.6	52.1 ± 12.2	10.5 ± 3.6
	Linalool oxide	80	10	51.9 ± 2.4	107.9 ± 12.5	63.4 ± 21.5	49.5 ± 18.0	11.1 ± 5.9
	Linalool oxide	250	10	51.6 ± 1.7	113.2 ± 12.9	84.3 ± 29.7	70.2 ± 28.8	11.1 ± 3.8
	Linalool oxide	800	10	53.3 ± 1.9	111.6 ± 7.8	72.4 ± 21.8	57.9 ± 18.6	11.6 ± 4.6

Sex	Test article	Dose (mg/kg/day)	No. of animals	Leukocytes, differential			Reticulo- cytes	Coagulation test PT
				Eosino- phils (x10 ³ /μL)	Baso- phils (x10 ³ /μL)	Mono- cytes (x10 ³ /μL)	(x10 ³ /μL)	(sec)
Male	Control	0	10	1.3 ± 0.5	0.0 ± 0.0	4.3 ± 1.7	27.93 ± 4.09	12.5 ± 1.4
	Linalool oxide	80	10	1.4 ± 0.6	0.0 ± 0.0	4.4 ± 1.7	29.03 ± 3.16	13.1 ± 2.6
	Linalool oxide	250	10	1.8 ± 0.5	0.1 ± 0.1	3.6 ± 0.7	28.49 ± 2.58	13.0 ± 2.2
	Linalool oxide	800	10	1.4 ± 0.7	0.0 ± 0.0	3.9 ± 0.9	28.17 ± 3.67	11.1 ± 0.5
Female	Control	0	10	0.9 ± 0.3	0.0 ± 0.0	1.6 ± 0.7	24.75 ± 3.96	9.4 ± 0.1
	Linalool oxide	80	10	0.9 ± 0.4	0.0 ± 0.0	1.8 ± 0.7	26.07 ± 4.00	9.3 ± 0.1
	Linalool oxide	250	10	1.0 ± 0.3	0.0 ± 0.0	2.1 ± 0.8	23.19 ± 4.23	9.3 ± 0.1
	Linalool oxide	800	10	1.0 ± 0.3	0.0 ± 0.0	2.0 ± 0.9	26.97 ± 4.72	9.1 ± 0.2 **

Significantly different from the control group ; *:p≤0.05, **:p≤0.01 (Dunnett test)



Table 8 Hematology - Group mean values (mean \pm S.D.) (Continued)

Sex	Test article	Dose (mg/kg/day)	No. of animals	Coagulation test	
				APTT (sec)	
Male	Control	0	10	16.0 \pm	2.6
	Linalool oxide	80	10	16.7 \pm	3.3
	Linalool oxide	250	10	17.1 \pm	2.1
	Linalool oxide	800	10	15.0 \pm	1.4
Female	Control	0	10	12.5 \pm	1.0
	Linalool oxide	80	10	12.4 \pm	0.9
	Linalool oxide	250	10	12.9 \pm	0.9
	Linalool oxide	800	10	11.3 \pm	1.4 *

Significantly different from the control group ; *:p \leq 0.05 (Dunnett test)

Table 9 Clinical chemistry - Group mean values (mean ± S.D.)

Sex	Test article	Dose (mg/kg/day)	No. of animals	AST		ALT		ALP		γ-GTP		T-BIL	
				(U/L)		(U/L)		(U/L)		(U/L)		(mg/dL)	
Male	Control	0	10	87 ± 20	33 ± 8	377 ± 155	0.3 ± 0.1	(9)	0.04 ± 0.01				
	Linalool oxide	80	10	84 ± 28	28 ± 7	295 ± 60	0.3 ± 0.1	(9)	0.04 ± 0.02				
	Linalool oxide	250	10	84 ± 26	29 ± 7	328 ± 61	0.4 ± 0.1		0.04 ± 0.01				
	Linalool oxide	800	10	82 ± 19	38 ± 5	308 ± 78	0.8 ± 0.3 ##		0.05 ± 0.01				
Female	Control	0	10	66 ± 9	29 ± 6	145 ± 16	0.3 ± 0.1	(9)	0.05 ± 0.01				
	Linalool oxide	80	10	81 ± 27	29 ± 8	156 ± 49	0.4 ± 0.1		0.05 ± 0.01				
	Linalool oxide	250	10	90 ± 14 ##	34 ± 11	170 ± 75	0.5 ± 0.3	(9)	0.06 ± 0.02 *				
	Linalool oxide	800	10	66 ± 20	34 ± 6	115 ± 25 #	0.8 ± 0.3 ##		0.06 ± 0.02				

Sex	Test article	Dose (mg/kg/day)	No. of animals	BUN		CRE		GLU		T-CHO		PL	
				(mg/dL)		(mg/dL)		(mg/dL)		(mg/dL)		(mg/dL)	
Male	Control	0	10	11.8 ± 1.2	0.31 ± 0.03	134 ± 10	54 ± 12	94 ± 14					
	Linalool oxide	80	10	12.2 ± 1.6	0.33 ± 0.04	138 ± 19	54 ± 7	97 ± 13					
	Linalool oxide	250	10	13.0 ± 1.5	0.31 ± 0.06	131 ± 19	58 ± 12	97 ± 14					
	Linalool oxide	800	10	12.6 ± 2.2	0.29 ± 0.05	115 ± 18 *	65 ± 11	105 ± 14					
Female	Control	0	10	14.7 ± 1.9	0.40 ± 0.04	134 ± 21	72 ± 10	148 ± 23					
	Linalool oxide	80	10	13.2 ± 2.1	0.38 ± 0.03	128 ± 9	80 ± 14	158 ± 24					
	Linalool oxide	250	10	13.6 ± 1.2	0.38 ± 0.04	109 ± 12 **	81 ± 14	157 ± 25					
	Linalool oxide	800	10	15.3 ± 2.6	0.34 ± 0.04 **	113 ± 14 *	111 ± 16 **	190 ± 20 **					

Sex	Test article	Dose (mg/kg/day)	No. of animals	TG		TP		ALB		A/G ratio		IP	
				(mg/dL)		(g/dL)		(g/dL)				(mg/dL)	
Male	Control	0	10	52 ± 18	5.9 ± 0.3	2.6 ± 0.2	0.81 ± 0.06	6.4 ± 0.4					
	Linalool oxide	80	10	53 ± 30	6.0 ± 0.2	2.7 ± 0.1	0.83 ± 0.06	6.2 ± 0.3					
	Linalool oxide	250	10	51 ± 14	6.1 ± 0.3	2.7 ± 0.1	0.82 ± 0.07	6.2 ± 0.4					
	Linalool oxide	800	10	41 ± 12	6.2 ± 0.2 *	2.7 ± 0.1	0.77 ± 0.06	6.4 ± 0.4					
Female	Control	0	10	46 ± 24	6.5 ± 0.2	3.3 ± 0.2	1.03 ± 0.08	4.9 ± 0.6					
	Linalool oxide	80	10	48 ± 21	6.6 ± 0.4	3.3 ± 0.3	1.02 ± 0.10	4.8 ± 0.8					
	Linalool oxide	250	10	43 ± 31	6.5 ± 0.4	3.2 ± 0.3	0.94 ± 0.06 *	5.0 ± 0.6					
	Linalool oxide	800	10	62 ± 24	6.5 ± 0.3	3.1 ± 0.1	0.92 ± 0.06 **	5.1 ± 0.5					

Significantly different from the control group ; *:p≤0.05, **:p≤0.01 (Dunnett test)

Significantly different from the control group ; #:p≤0.05, ##:p≤0.01 (Steel test)

Number in parentheses indicates the number of animals examined

Table 9 Clinical chemistry - Group mean values (mean \pm S.D.) (Continued)

Sex	Test article	Dose (mg/kg/day)	No. of animals	Ca (mg/dL)	Mg (mg/dL)	Na (mEq/L)	K (mEq/L)	Cl (mEq/L)
Male	Control	0	10	10.1 \pm 0.2	2.1 \pm 0.1	143.1 \pm 0.5	4.51 \pm 0.16	105.7 \pm 1.6
	Linalool oxide	80	10	10.2 \pm 0.3	2.1 \pm 0.1	143.4 \pm 0.9	4.43 \pm 0.22	105.2 \pm 1.6
	Linalool oxide	250	10	10.1 \pm 0.4	2.1 \pm 0.2	142.7 \pm 1.3	4.60 \pm 0.25	104.2 \pm 2.1
	Linalool oxide	800	10	10.2 \pm 0.2	2.3 \pm 0.1 **	143.1 \pm 0.8	4.77 \pm 0.34	104.5 \pm 1.7
Female	Control	0	10	10.3 \pm 0.3	2.1 \pm 0.1	143.1 \pm 1.1	4.05 \pm 0.28	105.3 \pm 2.2
	Linalool oxide	80	10	10.3 \pm 0.4	2.2 \pm 0.1	143.0 \pm 0.8	4.10 \pm 0.24	104.8 \pm 2.0
	Linalool oxide	250	10	10.2 \pm 0.3	2.2 \pm 0.1	142.8 \pm 1.1	3.98 \pm 0.19	103.9 \pm 1.5
	Linalool oxide	800	10	10.3 \pm 0.3	2.3 \pm 0.1 **	143.1 \pm 1.0	4.16 \pm 0.34	103.6 \pm 1.9

Significantly different from the control group ; **:p \leq 0.01 (Dunnett test)



Table 10 Gross pathology

Sex	Male				Female			
	Control	Linalool oxide	Linalool oxide	Linalool oxide	Control	Linalool oxide	Linalool oxide	Linalool oxide
Test article	0	80	250	800	0	80	250	800
Dose(mg/kg/day)	10	10	10	10	10	10	10	10
Number of animals								
Not remarkable	8	10	9	8	10	10	10	8
Spleen								
Accessory spleen	1	0	0	0	0	0	0	0
Stomach								
Discolored spot/Single	0	0	0	2	0	0	0	0
Small intestine								
Diverticulum	1	0	0	0	0	0	0	0
Kidney								
Recessed area/Unilateral	0	0	1	0	0	0	0	0
Ovary								
Discolored spot/Black/Unilateral/Single	-	-	-	-	0	0	0	1
Uterus								
Dilatation/Horn/Bilateral	-	-	-	-	0	0	0	1

Not significantly different from the control group

-: No data

Table 11 Organ weights - Group mean values (mean ± S.D.)

Sex	Test article	Dose (mg/kg/day)	No. of animals	Body weight (g)	Brain	Heart	Lungs
					(g)	(g)	(g)
Male	Control	0	10	640.8 ± 38.7	2.261 ± 0.089	1.716 ± 0.118	1.606 ± 0.098
	Linalool oxide	80	10	591.1 ± 75.6	2.238 ± 0.126	1.713 ± 0.214	1.546 ± 0.132
	Linalool oxide	250	10	565.2 ± 39.0 **	2.249 ± 0.070	1.640 ± 0.135	1.572 ± 0.088
	Linalool oxide	800	10	513.7 ± 42.7 **	2.159 ± 0.045 #	1.504 ± 0.117 **	1.479 ± 0.102 *
Female	Control	0	10	324.9 ± 28.9	2.012 ± 0.065	0.975 ± 0.077	1.177 ± 0.062
	Linalool oxide	80	10	314.8 ± 26.5	1.986 ± 0.079	0.985 ± 0.102	1.133 ± 0.066
	Linalool oxide	250	10	300.7 ± 26.5	1.999 ± 0.131	0.969 ± 0.103	1.123 ± 0.083
	Linalool oxide	800	10	292.3 ± 18.5 *	1.991 ± 0.051	0.975 ± 0.077	1.125 ± 0.087

Sex	Test article	Dose (mg/kg/day)	No. of animals	Liver	Kidneys	Spleen	Thymus
				(g)	(g)	(g)	(g)
Male	Control	0	10	16.264 ± 1.674	3.686 ± 0.322	0.908 ± 0.174	0.296 ± 0.061
	Linalool oxide	80	10	16.784 ± 2.809	3.757 ± 0.428	0.821 ± 0.168	0.246 ± 0.054
	Linalool oxide	250	10	16.136 ± 1.324	3.906 ± 0.415	0.756 ± 0.109	0.263 ± 0.042
	Linalool oxide	800	10	16.755 ± 1.668	3.837 ± 0.364	0.711 ± 0.135 *	0.258 ± 0.088
Female	Control	0	10	8.382 ± 0.767	1.903 ± 0.138	0.544 ± 0.049	0.286 ± 0.030
	Linalool oxide	80	10	8.592 ± 0.844	1.918 ± 0.118	0.533 ± 0.074	0.255 ± 0.056
	Linalool oxide	250	10	8.315 ± 0.529	1.919 ± 0.202	0.570 ± 0.074	0.271 ± 0.098
	Linalool oxide	800	10	10.116 ± 1.040 **	2.031 ± 0.208	0.531 ± 0.053	0.259 ± 0.034

Sex	Test article	Dose (mg/kg/day)	No. of animals	Pituitary	Thyroids	Adrenals	Testes
				(mg)	(mg)	(mg)	(g)
Male	Control	0	10	14.1 ± 1.3	25.9 ± 4.6	58.5 ± 5.8	3.809 ± 0.253
	Linalool oxide	80	10	14.5 ± 1.9	25.6 ± 5.4	66.1 ± 11.2	3.504 ± 0.401
	Linalool oxide	250	10	14.1 ± 1.1	27.1 ± 5.0	61.6 ± 14.8	3.526 ± 0.525
	Linalool oxide	800	10	13.2 ± 1.8	30.0 ± 3.3	60.3 ± 7.3	3.482 ± 0.371
Female	Control	0	10	16.7 ± 1.6	20.4 ± 2.6	63.1 ± 11.3	-
	Linalool oxide	80	10	18.4 ± 3.8	21.8 ± 4.0	66.2 ± 7.5	-
	Linalool oxide	250	10	17.8 ± 2.7	22.2 ± 6.1	69.8 ± 9.7	-
	Linalool oxide	800	10	17.2 ± 2.8	21.7 ± 3.5	75.8 ± 14.8 *	-

Significantly different from the control group ; *: $p \leq 0.05$, **: $p \leq 0.01$ (Dunnett test)
 Significantly different from the control group ; #: $p \leq 0.05$ (Steel test)
 Body weight : The value presented were obtained after the animals were fasted overnight
 -: No data

Table 11 Organ weights - Group mean values (mean ± S.D.) (Continued)

Sex	Test article	Dose (mg/kg/day)	No. of animals	Ovaries		Prostate		Seminal vesicles		Uterus	
				(mg)		(g)		(g)		(g)	
Male	Control	0	10	-	-	1.929 ± 0.320	-	1.424 ± 0.205	-	-	
	Linalool oxide	80	10	-	-	1.939 ± 0.325	-	1.386 ± 0.103	-	-	
	Linalool oxide	250	10	-	-	1.869 ± 0.258	-	1.347 ± 0.121	-	-	
	Linalool oxide	800	10	-	-	1.662 ± 0.208	-	1.207 ± 0.252	-	-	
Female	Control	0	10	122.5 ± 12.5	-	-	-	-	-	0.569 ± 0.182	
	Linalool oxide	80	10	116.5 ± 16.6	-	-	-	-	-	0.615 ± 0.193	
	Linalool oxide	250	10	122.7 ± 26.3	-	-	-	-	-	0.598 ± 0.198	
	Linalool oxide	800	10	104.9 ± 16.8	-	-	-	-	-	0.634 ± 0.181	

Sex	Test article	Dose (mg/kg/day)	No. of animals	Salivary glands	
				(g)	
Male	Control	0	10	0.825 ± 0.113	-
	Linalool oxide	80	10	0.750 ± 0.083	-
	Linalool oxide	250	10	0.722 ± 0.061 *	-
	Linalool oxide	800	10	0.695 ± 0.051 **	-
Female	Control	0	10	0.486 ± 0.068	-
	Linalool oxide	80	10	0.446 ± 0.053	-
	Linalool oxide	250	10	0.421 ± 0.052 *	-
	Linalool oxide	800	10	0.451 ± 0.057	-

Significantly different from the control group ; *:p≤0.05, **:p≤0.01 (Dunnett test)

-: No data



Table 12 Organ to body weight ratio (g/100g B.W.) - Group mean values (mean ± S.D.)

Sex	Test article	Dose (mg/kg/day)	No. of animals	Brain	Heart	Lungs	Liver
Male	Control	0	10	0.354 ± 0.020	0.268 ± 0.020	0.251 ± 0.014	2.536 ± 0.192
	Linalool oxide	80	10	0.383 ± 0.038	0.292 ± 0.038	0.263 ± 0.019	2.834 ± 0.232 **
	Linalool oxide	250	10	0.400 ± 0.030 **	0.291 ± 0.024	0.279 ± 0.027 **	2.858 ± 0.172 **
	Linalool oxide	800	10	0.423 ± 0.033 **	0.293 ± 0.014 #	0.289 ± 0.018 **	3.261 ± 0.160 **
Female	Control	0	10	0.624 ± 0.062	0.301 ± 0.020	0.364 ± 0.022	2.583 ± 0.141
	Linalool oxide	80	10	0.634 ± 0.054	0.313 ± 0.030	0.362 ± 0.031	2.731 ± 0.163
	Linalool oxide	250	10	0.669 ± 0.069	0.323 ± 0.026	0.375 ± 0.023	2.774 ± 0.172
	Linalool oxide	800	10	0.684 ± 0.042	0.334 ± 0.026 *	0.386 ± 0.035	3.461 ± 0.279 **

Sex	Test article	Dose (mg/kg/day)	No. of animals	Kidneys	Spleen	Thymus	Pituitary (x10 ⁻³)
Male	Control	0	10	0.576 ± 0.050	0.141 ± 0.023	0.046 ± 0.009	2.21 ± 0.21
	Linalool oxide	80	10	0.640 ± 0.068	0.139 ± 0.019	0.042 ± 0.008	2.46 ± 0.30
	Linalool oxide	250	10	0.692 ± 0.066 **	0.134 ± 0.017	0.047 ± 0.007	2.50 ± 0.22 *
	Linalool oxide	800	10	0.748 ± 0.054 **	0.138 ± 0.020	0.051 ± 0.018	2.57 ± 0.23 **
Female	Control	0	10	0.589 ± 0.060	0.168 ± 0.017	0.088 ± 0.009	5.17 ± 0.60
	Linalool oxide	80	10	0.613 ± 0.059	0.171 ± 0.030	0.082 ± 0.020	5.87 ± 1.25
	Linalool oxide	250	10	0.639 ± 0.052	0.190 ± 0.022	0.089 ± 0.026	5.94 ± 0.87
	Linalool oxide	800	10	0.696 ± 0.073 **	0.182 ± 0.017	0.089 ± 0.015	5.88 ± 0.78

Sex	Test article	Dose (mg/kg/day)	No. of animals	Thyroids (x10 ⁻³)	Adrenals (x10 ⁻³)	Testes	Ovaries (x10 ⁻³)
Male	Control	0	10	4.05 ± 0.72	9.16 ± 1.09	0.597 ± 0.059	- -
	Linalool oxide	80	10	4.35 ± 0.76	11.25 ± 1.82 #	0.600 ± 0.090	- -
	Linalool oxide	250	10	4.78 ± 0.75	11.03 ± 3.16	0.630 ± 0.119	- -
	Linalool oxide	800	10	5.87 ± 0.78 **	11.75 ± 1.09 ##	0.681 ± 0.078	- -
Female	Control	0	10	6.28 ± 0.67	19.63 ± 4.29	- -	37.91 ± 4.72
	Linalool oxide	80	10	6.96 ± 1.35	21.13 ± 2.75	- -	37.41 ± 7.00
	Linalool oxide	250	10	7.34 ± 1.57	23.43 ± 4.04	- -	41.01 ± 9.25
	Linalool oxide	800	10	7.47 ± 1.35	25.99 ± 4.91 **	- -	36.01 ± 6.12

Significantly different from the control group ; *:p≤0.05, **:p≤0.01 (Dunnett test)

Significantly different from the control group ; #:p≤0.05, ##:p≤0.01 (Steel test)

-: No data

Table 12 Organ to body weight ratio (g/100g B.W.) - Group mean values (mean \pm S.D.) (Continued)

Sex	Test article	Dose (mg/kg/day)	No. of animals	Prostate	Seminal vesicles	Uterus	Salivary glands
Male	Control	0	10	0.301 \pm 0.044	0.222 \pm 0.030	- -	0.128 \pm 0.013
	Linalool oxide	80	10	0.331 \pm 0.060	0.238 \pm 0.036	- -	0.128 \pm 0.017
	Linalool oxide	250	10	0.332 \pm 0.049	0.239 \pm 0.024	- -	0.128 \pm 0.008
	Linalool oxide	800	10	0.326 \pm 0.051	0.237 \pm 0.057	- -	0.136 \pm 0.011
Female	Control	0	10	- -	- -	0.179 \pm 0.073	0.150 \pm 0.022
	Linalool oxide	80	10	- -	- -	0.198 \pm 0.070	0.142 \pm 0.019
	Linalool oxide	250	10	- -	- -	0.203 \pm 0.084	0.141 \pm 0.017
	Linalool oxide	800	10	- -	- -	0.218 \pm 0.066	0.154 \pm 0.017

Not significantly different from the control group

-: No data



Table 13 Histopathological findings

Sex	Male				Female			
	Control	Linalool oxide	Linalool oxide	Linalool oxide	Control	Linalool oxide	Linalool oxide	Linalool oxide
Test article		80	250	800		80	250	800
Dose(mg/kg/day)								
Number of animals	10	10	10	10	10	10	10	10
Heart								
Normal	7			10	10			10
Mononuclear infiltrate/fibrosis, myocardium/(1)a	1			0	0			0
Mononuclear infiltrate/fibrosis, myocardium/(2)a	2			0	0			0
Aorta								
Normal	10			10	10			10
Mandibular lymph node								
Normal	10			10	10			10
Mesenteric lymph node								
Normal	10			10	10			10
Spleen								
Normal	9			10	10			10
Accessory spleen	1			0	0			0
Bone marrow								
Normal	10			10	10			10
Thymus								
Normal	10			10	10			10
Pituitary								
Normal	7			10	10			9
Cyst, pars intermedia	1			0	0			0
Cyst, pars nervosa	1			0	0			0
Cyst, pars nervosa, multiple	1			0	0			1
Dilatation, Rathke's cleft	0			0	0			1
Thyroid								
Normal	10	7	7	7	7	10	8	10
Cyst, congenital	0	3	2	2	1	0	2	0
Ectopic thymic tissue	0	0	1	1	2	0	0	0
Hyperplasia, follicular cell, focal/(1)a	0	0	0	1	0	0	0	0
Inflammation, acute/(1)a	0	0	0	0	1	0	0	0
Parathyroid								
Normal	10	10	7	10	9	9	10	9
Not examined	0	0	1	0	0	0	0	0
Cyst, congenital	0	0	0	0	0	0	0	1
Syncytial giant cell	0	0	2	0	1	1	0	0
Adrenal								
Normal	7	6	5	8	10	10	10	9
Accessory adrenocortical tissue	0	0	0	0	0	0	0	1
Vacuolization, cytoplasmic, cortex/(2)a	3	4	5	2	0	0	0	0
Nasal cavity								
Normal	10			10	10			9
Inflammation, nasolacrimal duct/(2)a	0			0	0			1
Trachea								
Normal	10			10	10			10

Not significantly different from the control group.

a : Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Table 13 Histopathological findings (Continued)

Sex	Male				Female			
	Control	Linalool oxide	Linalool oxide	Linalool oxide	Control	Linalool oxide	Linalool oxide	Linalool oxide
Test article								
Dose(mg/kg/day)	0	80	250	800	0	80	250	800
Number of animals	10	10	10	10	10	10	10	10
Lung/bronchial								
Normal	9			10	10			10
Alveolar macrophage aggregation/(1)a	1			0	0			0
Tongue								
Normal	10			10	10			10
Salivary gland								
Normal	9			10	10			10
Ectopic tissue, parotid gland	1			0	0			0
Esophagus								
Normal	10			10	10			10
Stomach								
Normal	9			8	10			10
Cyst, glandular/(1)a	1			0	0			0
Erosion, glandular/(2)a	0			2	0			0
Duodenum								
Normal	10			10	10			10
Jejunum								
Normal	10			10	10			10
Ileum								
Normal	9			10	10			10
Diverticulum	1			0	0			0
Cecum								
Normal	10			10	10			10
Colon								
Normal	9			10	10			10
Lymphocyte rich lymph vessels/(1)a	1			0	0			0
Rectum								
Normal	10			10	10			10
Pancreas								
Normal	10			8	9			9
Autophagic vacuoles, acinar cell/(1)a	0			1	1			0
Fibrosis, pancreatic islet/(1)a	0			1	0			0
Infiltrate, mononuclear cell/(1)a	0			1	0			1

Not significantly different from the control group.

a : Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Table 13 Histopathological findings (Continued)

Sex	Male				Female			
	Control	Linalool oxide	Linalool oxide	Linalool oxide	Control	Linalool oxide	Linalool oxide	Linalool oxide
Test article								
Dose(mg/kg/day)	0	80	250	800	0	80	250	800
Number of animals	10	10	10	10	10	10	10	10
Liver								
Normal	2	4	6	0	6	5	4	0
Fatty change, macrovesicular, periportal/(1)a	0	0	0	0	1	0	0	0
Fatty change, macrovesicular, periportal/(2)a	0	2	0	0	0	1	2	1
Fatty change, microvesicular, periportal/(1)a	3	1	1	2	1	1	2	4] \$
Fatty change, microvesicular, periportal/(2)a	4	3	2	4	0	1	1	2]
Hypertrophy, hepatocellular, centrilobular/(2)a	0	0	0	10 \$\$	0	0	0	10 \$\$
Infiltration, mononuclear/(1)a	1	0	1	0	3	0	1	1
Necrosis, focal/(1)a	0	0	0	0	0	1	0	0
Necrosis, focal/(2)a	0	0	0	0	1	0	0	0
Tension lipidosis/(1)a	0	0	0	0	0	0	0	1
Tension lipidosis/(2)a	0	0	1	0	2	1	1	0
Kidney								
Normal	0	0	0	0	9	10	10	10
Accumulation, hyaline droplets/(1)a	9	0] \$\$	1] \$\$	1] \$\$	0	0	0	0
Accumulation, hyaline droplets/(2)a	1	7]	6]	5]	0	0	0	0
Accumulation, hyaline droplets/(3)a	0	3]	3]	4]	0	0	0	0
Cast, granular/(1)a	0	3] \$\$	2] \$	1] \$	0	0	0	0
Cast, granular/(2)a	0	3]	3]	2]	0	0	0	0
Cast, granular/(3)a	0	0]	0]	1]	0	0	0	0
Cast, hyaline, pelvis/(2)a	0	1	0	0	0	0	0	0
Cyst/(2)a	1	0	0	0	0	0	0	0
Dilatation, pelvis/(2)a	0	2	0	0	0	0	0	0
Dilatation, tubule/(1)a	0	0	0	1	0	0	0	0
Microabscess, renal papilla/(2)a	0	0	1	0	0	0	0	0
Mineralization, cortico-medullary junction/(1)a	0	0	0	0	1	0	0	0
Pyelitis/(2)a	0	1	0	0	0	0	0	0
Tubule basophilia/(1)a	1	6] \$\$	4] \$\$	3] \$\$	0	0	0	0
Tubule basophilia/(2)a	0	3]	3]	4]	0	0	0	0
Urinary bladder								
Normal	10			10	10			10
Testis								
Normal	10			10				
Prostate								
Normal	6			10				
Infiltrate, lymphocytic/(1)a	1			0				
Infiltrate, lymphocytic/(2)a	2			0				
Inflammation/(2)a	1			0				
Epididymis								
Normal	10			10				
Seminal vesicle								
Normal	10			10				

Significantly different from the control group ; \$:p≤0.05, \$\$:p≤0.01 (Wilcoxon test).

a : Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe



Table 13 Histopathological findings (Continued)

Sex	Male				Female			
	Control	Linalool oxide	Linalool oxide	Linalool oxide	Control	Linalool oxide	Linalool oxide	Linalool oxide
Test article	0	80	250	800	0	80	250	800
Dose(mg/kg/day)	10	10	10	10	10	10	10	10
Number of animals	10	10	10	10	10	10	10	10
Mammary gland								
Normal	10			10	10			10
Ovary								
Normal					9			9
Cyst, corpus luteum/(2)a					0			1
Cyst, paraovarian/(2)a					1			0
Oviduct								
Normal					10			10
Uterus								
Normal					9			8
Dilatation, luminal/(2)a					1			2
Vagina								
Normal					10			10
Femur								
Normal	10			10	10			10
Sternum								
Normal	10			10	10			10
Musculature								
Normal	10			10	10			10
Skin/subcutis								
Normal	10			10	10			10
Zymbal's gland								
Normal	10			10	10			10
Eye								
Normal	10			10	10			10
Harderian gland								
Normal	10			10	10			10
Brain								
Normal	10			10	10			10
Spinal cord								
Normal	10			10	10			10
Sciatic nerve								
Normal	10			10	10			10

Not significantly different from the control group.

a : Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Table 14 Immunohistochemical finding



Sex	Male			
	Control	Linalool oxide	Linalool oxide	Linalool oxide
Test article				
Dose(mg/kg/day)	0	80	250	800
Number of animals	10	10	10	10
Kidney				
Accumulation of alpha2u-globulin/1+	9	0] \$\$	1] \$\$	1] \$\$
Accumulation of alpha2u-globulin/2+	1	7]	6]	5]
Accumulation of alpha2u-globulin/3+	0	3]	3]	4]

Significantly different from the control group ; \$\$:p≤0.01 (Wilcoxon test).

Grades of positive droplets: -; negative, 1+; minimal, 2+; slight, 3+; moderate.



Table 15 Results for stability

Test article	Intended concentration (mg/mL)	Storage period (Date of analysis)	Found concentration (mg/mL)	RE (%)	Stability ^a (%)
Linalool oxide	16.00	Immediately after preparation (November 30, 2017)	16.90	5.6	-
		5 days in a refrigerator following 24 hours at room temperature (December 6, 2017)	16.86	-	99.8
		10 days in a refrigerator following 24 hours at room temperature (December 11, 2017)	16.79	-	99.3
	160.0	Immediately after preparation (November 30, 2017)	165.0	3.1	-
		5 days in a refrigerator following 24 hours at room temperature (December 6, 2017)	166.3	-	100.8
		10 days in a refrigerator following 24 hours at room temperature (December 11, 2017)	167.8	-	101.7

RE : Relative error

a : Stability(%) = After storage / immediately after preparation × 100



Table 16 Results for content analyses

Test article	Date of analysis	Intended concentration (mg/mL)	Found concentration (mg/mL)	Ratio ^a (%)
Linalool oxide	November 30, 2017	0.000	0.000	-
		16.00	16.90	105.6
		50.00	51.63	103.3
		160.0	165.0	103.1
	February 27, 2018	0.000	0.000	-
		16.00	16.86	105.4
		50.00	52.02	104.0
		160.0	166.5	104.1

a : Ratio (%) = Found concentration / intended concentration×100

Table 17 Data of system suitability

Test article	Date of analysis	Injection time	Peak area (μ AU·sec)
Linalool oxide	November 29, 2017	1	13283
		2	13216
		3	13261
		Mean	13253
		SD	34
		RSD (%)	0.3
	December 6, 2017	1	12968
		2	13019
		3	12941
		Mean	12976
		SD	40
		RSD (%)	0.3
	December 11, 2017	1	12783
		2	12875
		3	12895
	Mean	12851	
	SD	60	
	RSD (%)	0.5	
February 27, 2018	1	12988	
	2	13039	
	3	13024	
	Mean	13017	
	SD	26	
	RSD (%)	0.2	

SD: Standard deviation
RSD: Relative standard deviation

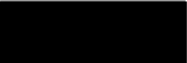


Table 18 Data of calibration curve

Test article	Date of analysis	Article concentration in calibration sample (µg/ml)	Back calculated concentration (µg/mL)	RE (%)	Peak area (µAU-sec)	Slope	Y intercept	Correlation coefficient (r)
Linalool oxide	November 29, 2017	10	10.06	0.6	2575	268.255	-122.199	1.000
		20	19.83	-0.9	5197			
		50	50.25	0.5	13358			
		75	74.84	-0.2	19955			
		100	100.0	0.0	26709			
	December 6, 2017	10	9.917	-0.8	2529	262.11	-69.9181	1.000
		20	20.04	0.2	5184			
		50	50.20	0.4	13088			
		75	74.76	-0.3	19525			
		100	100.1	0.1	26162			
	December 11, 2017	10	10.21	2.1	2451	261.876	-222.474	1.000
		20	19.85	-0.8	4977			
		50	49.78	-0.4	12813			
		75	75.16	0.2	19460			
		100	100.0	0.0	25965			
	February 27, 2018	10	9.976	-0.2	2479	264.149	-155.645	1.000
		20	20.25	1.3	5194			
		50	49.86	-0.3	13015			
		75	74.56	-0.6	19539			
		100	100.4	0.4	26352			

RE: Relative error

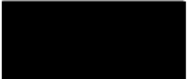


Table 19 Data of QC sample

Test article	Date of analysis	Article concentration in QC sample (µg/mL)	Back calculated concentration (µg/mL)	RE (%)
Linalool oxide	November 30, 2017	20	20.16	0.8
		75	20.25	1.3
	December 6, 2017	75	74.93	-0.1
		75	74.74	-0.3
		20	19.86	-0.7
		20	19.96	-0.2
	December 11, 2017	75	74.56	-0.6
		75	74.76	-0.3
		20	19.98	-0.1
		20	20.44	2.2
	February 27, 2018	75	75.34	0.5
		75	75.10	0.1
20		20.22	1.1	
20		20.05	0.3	
		75	75.17	0.2
		75	75.06	0.1

RE : Relative error

10 個体別表



Appendix 1 General condition - Individual observations

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						1(AM)	1(PM)	2(AM)	2(PM)	3(AM)	3(PM)	4(AM)
Male	Control	0	01M01			-	-	-	-	-	-	-
			01M02			-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-
	Linalool oxide	80	02M01				-	-	-	-	-	-
			02M02			-	-	-	-	-	-	-
			02M03			-	-	-	-	-	-	-
			02M04			-	-	-	-	-	-	-
			02M05			-	-	-	-	-	-	-
			02M06			-	-	-	-	-	-	-
			02M07			-	-	-	-	-	-	-
			02M08			-	-	-	-	-	-	-
			02M09			-	-	-	-	-	-	-
			02M10			-	-	-	-	-	-	-
	Linalool oxide	250	03M01				-	-	-	-	-	-
			03M02			-	-	-	-	-	-	-
			03M03			-	-	-	-	-	-	-
			03M04			-	-	-	-	-	-	-
			03M05			-	-	-	-	-	-	-
			03M06			-	-	-	-	-	-	-
			03M07			-	-	-	-	-	-	-
			03M08			-	-	-	-	-	-	-
			03M09			-	-	-	-	-	-	-
			03M10			-	-	-	-	-	-	-
	Linalool oxide	800	04M01				-	-	-	-	-	-
			04M02			-	-	b	-	b	-	-
			04M03			-	-	-	-	-	-	-
			04M04			b	-	-	-	-	-	-
			04M05			b	-	b	-	b	-	b
04M06					-	-	-	-	-	-	-	
04M07					-	-	-	-	-	-	-	
04M08					b	-	-	-	-	-	-	
04M09					-	-	-	-	-	-	-	
04M10					b	-	b	-	-	-	-	

b : Abnormal gait
 - : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						4(PM)	5(AM)	5(PM)	6(AM)	6(PM)	7(AM)	7(PM)
Male	Control	0	01M01			-	-	-	-	-	-	-
			01M02			-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-
	Linalool oxide	80	02M01				-	-	-	-	-	-
			02M02			-	-	-	-	-	-	-
			02M03			-	-	-	-	-	-	-
			02M04			-	-	-	-	-	-	-
			02M05			-	-	-	-	-	-	-
			02M06			-	-	-	-	-	-	-
			02M07			-	-	-	-	-	-	-
			02M08			-	-	-	-	-	-	-
			02M09			-	-	-	-	-	-	-
			02M10			-	-	-	-	-	-	-
	Linalool oxide	250	03M01				-	-	-	-	-	-
			03M02			-	-	-	-	-	-	-
			03M03			-	-	-	-	-	-	-
			03M04			-	-	-	-	-	-	-
			03M05			-	-	-	-	-	-	-
			03M06			-	-	-	-	-	-	-
			03M07			-	-	-	-	-	-	-
			03M08			-	-	-	-	-	-	-
			03M09			-	-	-	-	-	-	-
			03M10			-	-	-	-	-	-	-
	Linalool oxide	800	04M01				-	-	-	-	-	-
			04M02			-	-	-	b	-	-	-
			04M03			-	-	-	-	-	-	-
			04M04			-	-	-	-	-	-	-
			04M05			-	b	-	-	-	b	-
04M06					-	-	-	-	-	-	-	
04M07					-	-	-	-	-	-	-	
04M08					-	-	-	-	-	-	-	
04M09					-	-	-	-	-	-	-	
04M10					-	-	-	-	b	-	-	

b : Abnormal gait
 -: Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						8(AM)	8(PM)	9(AM)	9(PM)	10(AM)	10(PM)	11(AM)	
Male	Control	0	01M01			-	-	-	-	-	-	-	
			01M02			-	-	-	-	-	-	-	
			01M03			-	-	-	-	-	-	-	
			01M04			-	-	-	-	-	-	-	
			01M05			-	-	-	-	-	-	-	
			01M06			-	-	-	-	-	-	-	
			01M07			-	-	-	-	-	-	-	
			01M08			-	-	-	-	-	-	-	
			01M09			-	-	-	-	-	-	-	
			01M10			-	-	-	-	-	-	-	
	Linalool oxide	80	02M01				-	-	-	-	-	-	-
			02M02				-	-	-	-	-	-	-
			02M03				-	-	-	-	-	-	-
			02M04				-	-	-	-	-	-	-
			02M05				-	-	-	-	-	-	-
			02M06				-	-	-	-	-	-	-
			02M07				-	-	-	-	-	-	-
			02M08				-	-	-	-	-	-	-
			02M09				-	-	-	-	-	-	-
			02M10				-	-	-	-	-	-	-
	Linalool oxide	250	03M01				-	-	-	-	-	-	-
			03M02				-	-	-	-	-	-	-
			03M03				-	-	-	-	-	-	-
			03M04				-	-	-	-	-	-	-
			03M05				-	-	-	-	-	-	-
			03M06				-	-	-	-	-	-	-
			03M07				-	-	-	-	-	-	-
			03M08				-	-	-	-	-	-	-
			03M09				-	-	-	-	-	-	-
			03M10				-	-	-	-	-	-	-
Linalool oxide	800	04M01				-	-	-	-	-	-	-	
		04M02				a	-	a	-	a	-	a	
		04M03				-	-	-	-	-	-	-	
		04M04				-	-	-	-	-	-	-	
		04M05				-	-	-	-	-	-	-	
		04M06				-	-	-	-	-	-	-	
		04M07				-	-	-	-	-	-	-	
		04M08				-	-	-	-	-	-	-	
		04M09				-	-	-	-	-	-	-	
		04M10				-	-	-	-	-	-	-	

a : Decrease in locomotor activity

- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						11(PM)	12(AM)	12(PM)	13(AM)	13(PM)	14(AM)	14(PM)
Male	Control	0	01M01			-	-	-	-	-	-	-
			01M02			-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-
	Linalool oxide	80	02M01				-	-	-	-	-	-
			02M02			-	-	-	-	-	-	-
			02M03			-	-	-	-	-	-	-
			02M04			-	-	-	-	-	-	-
			02M05			-	-	-	-	-	-	-
			02M06			-	-	-	-	-	-	-
			02M07			-	-	-	-	-	-	-
			02M08			-	-	-	-	-	-	-
			02M09			-	-	-	-	-	-	-
			02M10			-	-	-	-	-	-	-
	Linalool oxide	250	03M01				-	-	-	-	-	-
			03M02			-	-	-	-	-	-	-
			03M03			-	-	-	-	-	-	-
			03M04			-	-	-	-	-	-	-
			03M05			-	-	-	-	-	-	-
			03M06			-	-	-	-	-	-	-
			03M07			-	-	-	-	-	-	-
			03M08			-	-	-	-	-	-	-
			03M09			-	-	-	-	-	-	-
			03M10			-	-	-	-	-	-	-
Linalool oxide	800	04M01				-	-	-	-	-	-	
		04M02			-	-	-	a	-	-	-	
		04M03			-	-	-	a	-	-	-	
		04M04			-	-	-	a	-	-	-	
		04M05			-	-	-	-	-	-	-	
		04M06			-	-	-	-	-	-	-	
		04M07			-	-	-	-	-	-	-	
		04M08			-	-	-	-	-	-	-	
		04M09			-	-	-	-	-	-	-	
		04M10			-	-	-	-	-	-	-	

a : Decrease in locomotor activity
 - : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						15(AM)	15(PM)	16(AM)	16(PM)	17(AM)	17(PM)	18(AM)
Male	Control	0	01M01			-	-	-	-	-	-	-
			01M02			-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-
	Linalool oxide	80	02M01			-	-	-	-	-	-	-
			02M02			-	-	-	-	-	-	-
			02M03			-	-	-	-	-	-	-
			02M04			-	-	-	-	-	-	-
			02M05			-	-	-	-	-	-	-
			02M06			-	-	-	-	-	-	-
			02M07			-	-	-	-	-	-	-
			02M08			-	-	-	-	-	-	-
			02M09			-	-	-	-	-	-	-
			02M10			-	-	-	-	-	-	-
	Linalool oxide	250	03M01			-	-	-	-	-	-	-
			03M02			-	-	-	-	-	-	-
			03M03			-	-	-	-	-	-	-
			03M04			-	-	-	-	-	-	-
			03M05			-	-	-	-	-	-	-
			03M06			-	-	-	-	-	-	-
			03M07			-	-	-	-	-	-	-
			03M08			-	-	-	-	-	-	-
			03M09			-	-	-	-	-	-	-
			03M10			-	-	-	-	-	-	-
	Linalool oxide	800	04M01			-	-	-	-	-	-	-
			04M02			-	-	-	-	c	-	-
			04M03			-	-	-	-	-	-	-
			04M04			-	-	-	-	-	-	-
			04M05			-	-	-	-	-	-	-
04M06					c	-	c	-	c	-	c	
04M07					c	-	c	-	c	-	c	
04M08					c	-	-	-	-	-	-	
04M09					c	-	-	-	c	-	-	
04M10					c	-	c	-	c	-	c	

c : Salivation

- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						18(PM)	19(AM)	19(PM)	20(AM)	20(PM)	21(AM)	21(PM)	
Male	Control	0	01M01			-	-	-	-	-	-	-	
			01M02			-	-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-	-
	Linalool oxide	80	02M01				-	-	-	-	-	-	-
			02M02			-	-	-	-	-	-	-	-
			02M03			-	-	-	-	-	-	-	-
			02M04			-	-	-	-	-	-	-	-
			02M05			-	-	-	-	-	-	-	-
			02M06			-	-	-	-	-	-	-	-
			02M07			-	-	-	-	-	-	-	-
			02M08			-	-	-	-	-	-	-	-
			02M09			-	-	-	-	-	-	-	-
			02M10			-	-	-	-	-	-	-	-
	Linalool oxide	250	03M01				-	-	-	-	-	-	-
			03M02			-	-	-	-	-	-	-	-
			03M03			-	-	-	-	-	-	-	-
			03M04			-	-	-	-	-	-	-	-
			03M05			-	-	-	-	-	-	-	-
			03M06			-	-	-	-	-	-	-	-
			03M07			-	-	-	-	-	-	-	-
			03M08			-	-	-	-	-	-	-	-
			03M09			-	-	-	-	-	-	-	-
			03M10			-	-	-	-	-	-	-	-
Linalool oxide	800	04M01				-	-	-	-	-	-	-	
		04M02			-	-	-	-	c	-	c	-	
		04M03			-	-	-	-	-	-	-	-	
		04M04			-	-	-	-	-	-	-	-	
		04M05			-	-	-	-	-	-	-	-	
		04M06			-	-	c	-	c	-	c	-	
		04M07			-	-	c	-	-	-	-	-	
		04M08			-	-	c	-	-	-	-	-	
		04M09			-	-	-	-	-	-	-	-	
		04M10			-	-	c	-	c	-	c	-	

c : Salivation
- : Normal

Appendix 1 General condition - Individual observations (Continued)



Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						22(AM)	22(PM)	23(AM)	23(PM)	24(AM)	24(PM)	25(AM)	
Male	Control	0	01M01			-	-	-	-	-	-	-	
			01M02			-	-	-	-	-	-	-	
			01M03			-	-	-	-	-	-	-	
			01M04			-	-	-	-	-	-	-	
			01M05			-	-	-	-	-	-	-	
			01M06			-	-	-	-	-	-	-	
			01M07			-	-	-	-	-	-	-	
			01M08			-	-	-	-	-	-	-	
			01M09			-	-	-	-	-	-	-	
			01M10			-	-	-	-	-	-	-	
	Linalool oxide	80	02M01				-	-	-	-	-	-	
			02M02				-	-	-	-	-	-	
			02M03				-	-	-	-	-	-	
			02M04				-	-	-	-	-	-	
			02M05				-	-	-	-	-	-	
			02M06				-	-	-	-	-	-	
			02M07				-	-	-	-	-	-	
			02M08				-	-	-	-	-	-	
			02M09				-	-	-	-	-	-	
			02M10				-	-	-	-	-	-	
	Linalool oxide	250	03M01				-	-	-	-	-	-	
			03M02				-	-	-	-	-	-	
			03M03				-	-	-	-	-	-	
			03M04				-	-	-	-	-	-	
			03M05				-	-	-	-	-	-	
			03M06				-	-	-	-	-	-	
			03M07				-	-	-	-	-	-	
			03M08				-	-	-	-	-	-	
			03M09				-	-	-	-	-	-	
			03M10				-	-	-	-	-	-	
	Linalool oxide	800	04M01				-	-	-	-	-	-	
			04M02				c	-	c	-	c	-	c
			04M03				-	-	-	-	-	-	-
			04M04				-	-	-	-	-	-	-
04M05						-	-	-	-	-	-	-	
04M06						c	-	c	-	c	-	c	
04M07						c	-	c	-	c	-	c	
04M08						c	-	c	-	c	-	c	
04M09						-	-	-	-	c	-	c	
04M10						c	-	c	-	c	-	c	

c : Salivation
 - : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						25(PM)	26(AM)	26(PM)	27(AM)	27(PM)	28(AM)	28(PM)	
Male	Control	0	01M01			-	-	-	-	-	-	-	
			01M02			-	-	-	-	-	-	-	
			01M03			-	-	-	-	-	-	-	
			01M04			-	-	-	-	-	-	-	
			01M05			-	-	-	-	-	-	-	
			01M06			-	-	-	-	-	-	-	
			01M07			-	-	-	-	-	-	-	
			01M08			-	-	-	-	-	-	-	
			01M09			-	-	-	-	-	-	-	
			01M10			-	-	-	-	-	-	-	
	Linalool oxide	80	02M01				-	-	-	-	-	-	-
			02M02				-	-	-	-	-	-	-
			02M03				-	-	-	-	-	-	-
			02M04				-	-	-	-	-	-	-
			02M05				-	-	-	-	-	-	-
			02M06				-	-	-	-	-	-	-
			02M07				-	-	-	-	-	-	-
			02M08				-	-	-	-	-	-	-
			02M09				-	-	-	-	-	-	-
			02M10				-	-	-	-	-	-	-
	Linalool oxide	250	03M01				-	-	-	-	-	-	-
			03M02				-	-	-	-	-	-	-
			03M03				-	-	-	-	-	-	-
			03M04				-	-	-	-	-	-	-
			03M05				-	-	-	-	-	-	-
			03M06				-	-	-	-	-	-	-
			03M07				-	-	-	-	-	-	-
			03M08				-	-	-	-	-	-	-
			03M09				-	-	-	-	-	-	-
			03M10				-	-	-	-	-	-	-
Linalool oxide	800	04M01				-	-	-	-	-	-	-	
		04M02				-	c	-	c	-	-	-	
		04M03				-	-	-	-	-	-	-	
		04M04				-	-	-	-	-	-	-	
		04M05				-	-	-	-	-	-	-	
		04M06				-	-	-	c	-	c	-	
		04M07				-	c	-	c	-	c	-	
		04M08				-	c	-	c	-	-	-	
		04M09				-	c	-	c	-	c	-	
		04M10				-	c	-	c	-	c	-	

c : Salivation
 - : Normal

Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						29(AM)	29(PM)	30(AM)	30(PM)	31(AM)	31(PM)	32(AM)	
Male	Control	0	01M01			-	-	-	-	-	-	-	
			01M02			-	-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-	-
	Linalool oxide	80	02M01				-	-	-	-	-	-	-
			02M02				-	-	-	-	-	-	-
			02M03				-	-	-	-	-	-	-
			02M04				-	-	-	-	-	-	-
			02M05				-	-	-	-	-	-	-
			02M06				-	-	-	-	-	-	-
			02M07				-	-	-	-	-	-	-
			02M08				-	-	-	-	-	-	-
			02M09				-	-	-	-	-	-	-
			02M10				-	-	-	-	-	-	-
	Linalool oxide	250	03M01				-	-	-	-	-	-	-
			03M02				-	-	-	-	-	-	-
			03M03				-	-	-	-	-	-	-
			03M04				-	-	-	-	-	-	-
			03M05				-	-	-	-	-	-	-
			03M06				-	-	-	-	-	-	-
			03M07				-	-	-	-	-	-	-
			03M08				-	-	-	-	-	-	-
			03M09				-	-	-	-	-	-	-
			03M10				-	-	-	-	-	-	-
Linalool oxide	800	04M01				-	-	-	-	-	-	-	
		04M02				c	-	c	-	c	-	c	
		04M03				-	-	-	-	-	-	c	
		04M04				-	-	-	-	-	-	-	
		04M05				-	-	-	-	-	-	-	
		04M06				c	-	c	-	c	-	c	
		04M07				c	-	c	-	c	-	c	
		04M08				c	-	c	-	c	-	c	
		04M09				c	-	c	-	c	-	c	
		04M10				c	-	c	-	c	-	c	

c : Salivation
- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						32(PM)	33(AM)	33(PM)	34(AM)	34(PM)	35(AM)	35(PM)
Male	Control	0	01M01			-	-	-	-	-	-	-
			01M02			-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-
	Linalool oxide	80	02M01				-	-	-	-	-	-
			02M02			-	-	-	-	-	-	-
			02M03			-	-	-	-	-	-	-
			02M04			-	-	-	-	-	-	-
			02M05			-	-	-	-	-	-	-
			02M06			-	-	-	-	-	-	-
			02M07			-	-	-	-	-	-	-
			02M08			-	-	-	-	-	-	-
			02M09			-	-	-	-	-	-	-
			02M10			-	-	-	-	-	-	-
	Linalool oxide	250	03M01				-	-	-	-	-	-
			03M02			-	-	-	-	-	-	-
			03M03			-	-	-	-	-	-	-
			03M04			-	-	-	-	-	-	-
			03M05			-	-	-	-	-	-	-
			03M06			-	-	-	-	-	-	-
			03M07			-	-	-	-	-	-	-
			03M08			-	-	-	-	-	-	-
			03M09			-	-	-	-	-	-	-
			03M10			-	-	-	-	-	-	-
Linalool oxide	800	04M01				-	-	-	-	-	-	
		04M02			-	c	-	-	c	-	c	
		04M03			-	c	-	-	-	-	-	
		04M04			-	-	-	-	-	-	-	
		04M05			-	-	-	-	-	-	-	
		04M06			-	c	-	-	c	-	c	
		04M07			-	c	-	-	c	-	c	
		04M08			-	c	-	-	c	-	c	
		04M09			-	c	-	-	c	-	c	
		04M10			-	c	-	-	c	-	c	

c : Salivation
 - : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						36(AM)	36(PM)	37(AM)	37(PM)	38(AM)	38(PM)	39(AM)	
Male	Control	0	01M01			-	-	-	-	-	-	-	
			01M02			-	-	-	-	-	-	-	
			01M03			-	-	-	-	-	-	-	
			01M04			-	-	-	-	-	-	-	
			01M05			-	-	-	-	-	-	-	
			01M06			-	-	-	-	-	-	-	
			01M07			-	-	-	-	-	-	-	
			01M08			-	-	-	-	-	-	-	
			01M09			-	-	-	-	-	-	-	
			01M10			-	-	-	-	-	-	-	
	Linalool oxide	80	02M01				-	-	-	-	-	-	
			02M02			-	-	-	-	-	-	-	
			02M03			-	-	-	-	-	-	-	
			02M04			-	-	-	-	-	-	-	
			02M05			-	-	-	-	-	-	-	
			02M06			-	-	-	-	-	-	-	
			02M07			-	-	-	-	-	-	-	
			02M08			-	-	-	-	-	-	-	
			02M09			-	-	-	-	-	-	-	
			02M10			-	-	-	-	-	-	-	
	Linalool oxide	250	03M01				-	-	-	-	-	-	
			03M02			-	-	-	-	-	-	-	
			03M03			-	-	-	-	-	-	-	
			03M04			-	-	-	-	-	-	-	
			03M05			-	-	-	-	-	-	-	
			03M06			-	-	-	-	-	-	-	
			03M07			-	-	-	-	-	-	-	
			03M08			-	-	-	-	-	-	-	
			03M09			-	-	-	-	-	-	-	
			03M10			-	-	-	-	-	-	-	
	Linalool oxide	800	04M01				-	-	-	-	-	-	
			04M02			c	-	-	c	-	c	-	c
			04M03			c	-	-	-	-	-	-	-
			04M04			-	-	-	-	-	c	-	-
04M05					-	-	-	-	-	-	-	-	
04M06					c	-	-	c	-	c	-	c	
04M07					c	-	-	c	-	c	-	c	
04M08					c	-	-	c	-	c	-	c	
04M09					c	-	-	-	-	c	-	c	
04M10					c	-	-	c	-	c	-	c	

c : Salivation

- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						39(PM)	40(AM)	40(PM)	41(AM)	41(PM)	42(AM)	42(PM)	
Male	Control	0	01M01			-	-	-	-	-	-	-	
			01M02			-	-	-	-	-	-	-	
			01M03			-	-	-	-	-	-	-	
			01M04			-	-	-	-	-	-	-	
			01M05			-	-	-	-	-	-	-	
			01M06			-	-	-	-	-	-	-	
			01M07			-	-	-	-	-	-	-	
			01M08			-	-	-	-	-	-	-	
			01M09			-	-	-	-	-	-	-	
			01M10			-	-	-	-	-	-	-	
	Linalool oxide	80	02M01				-	-	-	-	-	-	-
			02M02				-	-	-	-	-	-	-
			02M03				-	-	-	-	-	-	-
			02M04				-	-	-	-	-	-	-
			02M05				-	-	-	-	-	-	-
			02M06				-	-	-	-	-	-	-
			02M07				-	-	-	-	-	-	-
			02M08				-	-	-	-	-	-	-
			02M09				-	-	-	-	-	-	-
			02M10				-	-	-	-	-	-	-
	Linalool oxide	250	03M01				-	-	-	-	-	-	-
			03M02				-	-	-	-	-	-	-
			03M03				-	-	-	-	-	-	-
			03M04				-	-	-	-	-	-	-
			03M05				-	-	-	-	-	-	-
			03M06				-	-	-	-	-	-	-
			03M07				-	-	-	-	-	-	-
			03M08				-	-	-	-	-	-	-
			03M09				-	-	-	-	-	-	-
			03M10				-	-	-	-	-	-	-
Linalool oxide	800	04M01				-	-	-	-	-	-	-	
		04M02				-	-	-	c	-	-	-	
		04M03				-	-	-	-	-	-	-	
		04M04				-	-	-	-	-	-	-	
		04M05				-	-	-	-	-	-	-	
		04M06				-	c	-	-	-	c	-	
		04M07				-	-	-	-	-	-	-	
		04M08				-	c	-	c	-	c	-	
		04M09				-	-	-	-	-	c	-	
		04M10				-	c	-	c	-	c	-	

c : Salivation
- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						43(AM)	43(PM)	44(AM)	44(PM)	45(AM)	45(PM)	46(AM)	
Male	Control	0	01M01			-	-	-	-	-	-	-	
			01M02			-	-	-	-	-	-	-	
			01M03			-	-	-	-	-	-	-	
			01M04			-	-	-	-	-	-	-	
			01M05			-	-	-	-	-	-	-	
			01M06			-	-	-	-	-	-	-	
			01M07			-	-	-	-	-	-	-	
			01M08			-	-	-	-	-	-	-	
			01M09			-	-	-	-	-	-	-	
			01M10			-	-	-	-	-	-	-	
	Linalool oxide	80	02M01				-	-	-	-	-	-	-
			02M02				-	-	-	-	-	-	-
			02M03				-	-	-	-	-	-	-
			02M04				-	-	-	-	-	-	-
			02M05				-	-	-	-	-	-	-
			02M06				-	-	-	-	-	-	-
			02M07				-	-	-	-	-	-	-
			02M08				-	-	-	-	-	-	-
			02M09				-	-	-	-	-	-	-
			02M10				-	-	-	-	-	-	-
	Linalool oxide	250	03M01				-	-	-	-	-	-	-
			03M02				-	-	-	-	-	-	-
			03M03				-	-	-	-	-	-	-
			03M04				-	-	-	-	-	-	-
			03M05				-	-	-	-	-	-	-
			03M06				-	-	-	-	-	-	-
			03M07				-	-	-	-	-	-	-
			03M08				-	-	-	-	-	-	-
			03M09				-	-	-	-	-	-	-
			03M10				-	-	-	-	-	-	-
Linalool oxide	800	04M01				-	-	-	-	-	-	-	
		04M02				c	-	c	-	c	-	c	
		04M03				-	-	-	-	-	-	-	
		04M04				-	-	-	-	-	-	-	
		04M05				-	-	-	-	-	-	-	
		04M06				c	-	c	-	c	-	c	
		04M07				c	-	c	-	c	-	c	
		04M08				c	-	c	-	c	-	c	
		04M09				c	-	c	-	c	-	c	
		04M10				c	-	c	-	c	-	c	

c : Salivation

- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						46(PM)	47(AM)	47(PM)	48(AM)	48(PM)	49(AM)	49(PM)
Male	Control	0	01M01			-	-	-	-	-	-	-
			01M02			-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-
	Linalool oxide	80	02M01			-	-	-	-	-	-	-
			02M02			-	-	-	-	-	-	-
			02M03			-	-	-	-	-	-	-
			02M04			-	-	-	-	-	-	-
			02M05			-	-	-	-	-	-	-
			02M06			-	-	-	-	-	-	-
			02M07			-	-	-	-	-	-	-
			02M08			-	-	-	-	-	-	-
			02M09			-	-	-	-	-	-	-
			02M10			-	-	-	-	-	-	-
	Linalool oxide	250	03M01			-	-	-	-	-	-	-
			03M02			-	-	-	-	-	-	-
			03M03			-	-	-	-	-	-	-
			03M04			-	-	-	-	-	-	-
			03M05			-	-	-	-	-	-	-
			03M06			-	-	-	-	-	-	-
			03M07			-	-	-	-	-	-	-
			03M08			-	-	-	-	-	-	-
			03M09			-	-	-	-	-	-	-
			03M10			-	-	-	-	-	-	-
Linalool oxide	800	04M01			-	-	-	-	-	-	-	
		04M02			-	c	-	c	-	c	-	
		04M03			-	-	-	-	-	-	-	
		04M04			-	-	-	-	-	-	-	
		04M05			-	-	-	-	-	-	-	
		04M06			-	c	-	c	-	c	-	
		04M07			-	-	-	c	-	-	-	
		04M08			-	c	-	c	-	c	-	
		04M09			-	c	-	c	-	c	-	
		04M10			-	c	-	c	-	c	-	

c : Salivation

- : Normal

Appendix 1 General condition - Individual observations (Continued)



Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						50(AM)	50(PM)	51(AM)	51(PM)	52(AM)	52(PM)	53(AM)
Male	Control	0	01M01			-	-	-	-	-	-	-
			01M02			-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-
	Linalool oxide	80	02M01			-	-	-	-	-	-	-
			02M02			-	-	-	-	-	-	-
			02M03			-	-	-	-	-	-	-
			02M04			-	-	-	-	-	-	-
			02M05			-	-	-	-	-	-	-
			02M06			-	-	-	-	-	-	-
			02M07			-	-	-	-	-	-	-
			02M08			-	-	-	-	-	-	-
			02M09			-	-	-	-	-	-	-
			02M10			-	-	-	-	-	-	-
	Linalool oxide	250	03M01			-	-	-	-	-	-	-
			03M02			-	-	-	-	-	-	-
			03M03			-	-	-	-	-	-	-
			03M04			-	-	-	-	-	-	-
			03M05			-	-	-	-	-	-	-
			03M06			-	-	-	-	-	-	-
			03M07			-	-	-	-	-	-	-
			03M08			-	-	-	-	-	-	-
			03M09			-	-	-	-	-	-	-
			03M10			-	-	-	-	-	-	-
Linalool oxide	800	04M01			-	-	-	-	-	-	-	
		04M02			c	-	c	-	c	-	c	
		04M03			-	-	-	-	-	-	-	
		04M04			-	-	-	-	-	-	-	
		04M05			-	-	-	-	-	-	-	
		04M06			c	-	c	-	c	-	c	
		04M07			-	-	-	-	-	-	c	
		04M08			c	-	c	-	c	-	c	
		04M09			c	-	c	-	-	-	c	
		04M10			-	-	c	-	c	-	c	

c : Salivation
 - : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						53(PM)	54(AM)	54(PM)	55(AM)	55(PM)	56(AM)	56(PM)
Male	Control	0	01M01			-	-	-	-	-	-	-
			01M02			-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-
	Linalool oxide	80	02M01				-	-	-	-	-	-
			02M02				-	-	-	-	-	-
			02M03					-	-	-	-	-
			02M04					-	-	-	-	-
			02M05					-	-	-	-	-
			02M06					-	-	-	-	-
			02M07					-	-	-	-	-
			02M08					-	-	-	-	-
			02M09					-	-	-	-	-
			02M10					-	-	-	-	-
	Linalool oxide	250	03M01				-	-	-	-	-	-
			03M02				-	-	-	-	-	-
			03M03				-	-	-	-	-	-
			03M04				-	-	-	-	-	-
			03M05				-	-	-	-	-	-
			03M06				-	-	-	-	-	-
			03M07				-	-	-	-	-	-
			03M08				-	-	-	-	-	-
			03M09				-	-	-	-	-	-
			03M10				-	-	-	-	-	-
	Linalool oxide	800	04M01				-	-	-	-	-	-
			04M02				-	c	-	c	-	c
			04M03				-	-	-	-	-	-
			04M04				-	-	-	-	-	-
			04M05				-	-	-	-	-	-
			04M06				-	c	-	c	-	c
			04M07				-	c	-	-	-	c
			04M08				-	c	-	c	-	c
			04M09				-	c	-	-	-	c
			04M10				-	c	-	c	-	c

c : Salivation
- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						57(AM)	57(PM)	58(AM)	58(PM)	59(AM)	59(PM)	60(AM)	
Male	Control	0	01M01			-	-	-	-	-	-	-	
			01M02			-	-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-	-
	Linalool oxide	80	02M01				-	-	-	-	-	-	-
			02M02				-	-	-	-	-	-	-
			02M03				-	-	-	-	-	-	-
			02M04				-	-	-	-	-	-	-
			02M05				-	-	-	-	-	-	-
			02M06				-	-	-	-	-	-	-
			02M07				-	-	-	-	-	-	-
			02M08				-	-	-	-	-	-	-
			02M09				-	-	-	-	-	-	-
			02M10				-	-	-	-	-	-	-
	Linalool oxide	250	03M01				-	-	-	-	-	-	-
			03M02				-	-	-	-	-	-	-
			03M03				-	-	-	-	-	-	-
			03M04				-	-	-	-	-	-	-
			03M05				-	-	-	-	-	-	-
			03M06				-	-	-	-	-	-	-
			03M07				-	-	-	-	-	-	-
			03M08				-	-	-	-	-	-	-
			03M09				-	-	-	-	-	-	-
			03M10				-	-	-	-	-	-	-
Linalool oxide	800	04M01				-	-	-	-	-	-	-	
		04M02				-	-	-	-	-	-	c	
		04M03				-	-	-	-	-	-	-	
		04M04				-	-	-	-	-	-	-	
		04M05				-	-	-	-	-	-	-	
		04M06				c	-	-	-	c	-	c	
		04M07				-	-	-	-	-	-	-	
		04M08				c	-	c	-	c	-	c	
		04M09				c	-	c	-	c	-	c	
		04M10				c	-	c	-	c	-	c	

c : Salivation
 - : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						60(PM)	61(AM)	61(PM)	62(AM)	62(PM)	63(AM)	63(PM)
Male	Control	0	01M01			-	-	-	-	-	-	-
			01M02			-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-
	Linalool oxide	80	02M01			-	-	-	-	-	-	-
			02M02			-	-	-	-	-	-	-
			02M03			-	-	-	-	-	-	-
			02M04			-	-	-	-	-	-	-
			02M05			-	-	-	-	-	-	-
			02M06			-	-	-	-	-	-	-
			02M07			-	-	-	-	-	-	-
			02M08			-	-	-	-	-	-	-
			02M09			-	-	-	-	-	-	-
			02M10			-	-	-	-	-	-	-
	Linalool oxide	250	03M01			-	-	-	-	-	-	-
			03M02			-	-	-	-	-	-	-
			03M03			-	-	-	-	-	-	-
			03M04			-	-	-	-	-	-	-
			03M05			-	-	-	-	-	-	-
			03M06			-	-	-	-	-	-	-
			03M07			-	-	-	-	-	-	-
			03M08			-	-	-	-	-	-	-
			03M09			-	-	-	-	-	-	-
			03M10			-	-	-	-	-	-	-
	Linalool oxide	800	04M01			-	-	-	-	-	-	-
			04M02			-	c	-	-	-	-	-
			04M03			-	-	-	-	-	-	-
			04M04			-	-	-	-	-	-	-
			04M05			-	-	-	-	-	-	-
04M06					-	c	-	c	-	c	-	
04M07					-	-	-	-	-	-	-	
04M08					-	c	-	c	-	c	-	
04M09					-	c	-	c	-	c	-	
04M10					-	c	-	c	-	c	-	

c : Salivation

- : Normal

Appendix 1 General condition - Individual observations (Continued)



Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						64(AM)	64(PM)	65(AM)	65(PM)	66(AM)	66(PM)	67(AM)
Male	Control	0	01M01			-	-	-	-	-	-	-
			01M02			-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-
	Linalool oxide	80	02M01			-	-	-	-	-	-	-
			02M02			-	-	-	-	-	-	-
			02M03			-	-	-	-	-	-	-
			02M04			-	-	-	-	-	-	-
			02M05			-	-	-	-	-	-	-
			02M06			-	-	-	-	-	-	-
			02M07			-	-	-	-	-	-	-
			02M08			-	-	-	-	-	-	-
			02M09			-	-	-	-	-	-	-
			02M10			-	-	-	-	-	-	-
	Linalool oxide	250	03M01			-	-	-	-	-	-	-
			03M02			-	-	-	-	-	-	-
			03M03			-	-	-	-	-	-	-
			03M04			-	-	-	-	-	-	-
			03M05			-	-	-	-	-	-	-
			03M06			-	-	-	-	-	-	-
			03M07			-	-	-	-	-	-	-
			03M08			-	-	-	-	-	-	-
			03M09			-	-	-	-	-	-	-
			03M10			-	-	-	-	-	-	-
	Linalool oxide	800	04M01			-	-	-	-	-	-	-
			04M02			-	-	-	-	-	-	-
			04M03			-	-	-	-	-	-	-
			04M04			-	-	-	-	-	-	-
			04M05			-	-	-	-	-	-	-
04M06					c	-	-	-	-	-	-	c
04M07					-	-	-	-	-	-	-	c
04M08					-	-	c	-	-	c	-	c
04M09					c	-	c	-	-	c	-	c
04M10					c	-	c	-	-	c	-	c

c : Salivation
 -: Normal

Appendix 1 General condition - Individual observations (Continued)



Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						67(PM)	68(AM)	68(PM)	69(AM)	69(PM)	70(AM)	70(PM)
Male	Control	0	01M01			-	-	-	-	-	-	-
			01M02			-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-
	Linalool oxide	80	02M01			-	-	-	-	-	-	-
			02M02			-	-	-	-	-	-	-
			02M03			-	-	-	-	-	-	-
			02M04			-	-	-	-	-	-	-
			02M05			-	-	-	-	-	-	-
			02M06			-	-	-	-	-	-	-
			02M07			-	-	-	-	-	-	-
			02M08			-	-	-	-	-	-	-
			02M09			-	-	-	-	-	-	-
			02M10			-	-	-	-	-	-	-
	Linalool oxide	250	03M01			-	-	-	-	-	-	-
			03M02			-	-	-	-	-	-	-
			03M03			-	-	-	-	-	-	-
			03M04			-	-	-	-	-	-	-
			03M05			-	-	-	-	-	-	-
			03M06			-	-	-	-	-	-	-
			03M07			-	-	-	-	-	-	-
			03M08			-	-	-	-	-	-	-
			03M09			-	-	-	-	-	-	-
			03M10			-	-	-	-	-	-	-
	Linalool oxide	800	04M01			-	-	-	-	-	-	-
			04M02			-	-	-	-	-	c	-
			04M03			-	-	-	-	-	-	-
			04M04			-	-	-	-	-	-	-
04M05					-	-	-	-	-	-	-	
04M06					-	c	-	c	-	c	-	
04M07					-	c	-	-	-	-	-	
04M08					-	c	-	c	-	c	-	
04M09					-	c	-	c	-	c	-	
04M10					-	c	-	c	-	c	-	

c : Salivation

- : Normal

Appendix 1 General condition - Individual observations (Continued)



Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						71(AM)	71(PM)	72(AM)	72(PM)	73(AM)	73(PM)	74(AM)	
Male	Control	0	01M01			-	-	-	-	-	-	-	
			01M02			-	-	-	-	-	-	-	
			01M03			-	-	-	-	-	-	-	
			01M04			-	-	-	-	-	-	-	
			01M05			-	-	-	-	-	-	-	
			01M06			-	-	-	-	-	-	-	
			01M07			-	-	-	-	-	-	-	
			01M08			-	-	-	-	-	-	-	
			01M09			-	-	-	-	-	-	-	
			01M10			-	-	-	-	-	-	-	
	Linalool oxide	80	02M01				-	-	-	-	-	-	-
			02M02				-	-	-	-	-	-	-
			02M03				-	-	-	-	-	-	-
			02M04				-	-	-	-	-	-	-
			02M05				-	-	-	-	-	-	-
			02M06				-	-	-	-	-	-	-
			02M07				-	-	-	-	-	-	-
			02M08				-	-	-	-	-	-	-
			02M09				-	-	-	-	-	-	-
			02M10				-	-	-	-	-	-	-
	Linalool oxide	250	03M01				-	-	-	-	-	-	-
			03M02				-	-	-	-	-	-	c
			03M03				-	-	-	-	-	-	-
			03M04				-	-	-	-	-	-	-
			03M05				-	-	-	-	-	-	-
			03M06				-	-	-	-	-	-	-
			03M07				-	-	-	-	-	-	-
			03M08				-	-	-	-	-	-	-
			03M09				-	-	-	-	-	-	-
			03M10				-	-	-	-	-	-	-
Linalool oxide	800	04M01				-	-	-	-	-	-	-	
		04M02				c	-	c	-	c	-	c	
		04M03				-	-	-	-	-	-	-	
		04M04				-	-	-	-	-	-	c	
		04M05				-	-	-	-	-	-	-	
		04M06				c	-	c	-	c	-	c	
		04M07				-	-	-	-	-	-	c	
		04M08				c	-	c	-	c	-	c	
		04M09				c	-	c	-	c	-	c	
		04M10				c	-	c	-	c	-	-	

c : Salivation
 - : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						74(PM)	75(AM)	75(PM)	76(AM)	76(PM)	77(AM)	77(PM)	
Male	Control	0	01M01			-	-	-	-	-	-	-	
			01M02			-	-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-	-
	Linalool oxide	80	02M01				-	-	-	-	-	-	-
			02M02			-	-	-	-	-	-	-	-
			02M03			-	-	-	-	-	-	-	-
			02M04			-	-	-	-	-	-	-	-
			02M05			-	-	-	-	-	-	-	-
			02M06			-	-	-	-	-	-	-	-
			02M07			-	-	-	-	-	-	-	-
			02M08			-	-	-	-	-	-	-	-
			02M09			-	-	-	-	-	-	-	-
			02M10			-	-	-	-	-	-	-	-
	Linalool oxide	250	03M01				-	-	-	-	-	-	-
			03M02			-	-	-	-	-	-	-	-
			03M03			-	-	-	-	-	-	-	-
			03M04			-	-	-	-	-	-	-	-
			03M05			-	-	-	-	-	-	-	-
			03M06			-	-	-	-	-	-	-	-
			03M07			-	-	-	-	-	-	-	-
			03M08			-	-	-	-	-	-	-	-
			03M09			-	-	-	-	-	-	-	-
			03M10			-	-	-	-	-	-	-	-
Linalool oxide	800	04M01				-	-	-	-	-	-	-	
		04M02			-	-	-	-	c	-	c	-	
		04M03			-	-	-	-	-	-	-	-	
		04M04			-	-	c	-	-	-	-	-	
		04M05			-	-	-	-	-	-	-	-	
		04M06			-	-	c	-	-	c	-	-	
		04M07			-	-	-	-	-	c	-	-	
		04M08			-	-	c	-	-	c	-	c	
		04M09			-	-	c	-	-	c	-	c	
		04M10			-	-	c	-	-	c	-	c	

c : Salivation
 - : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						78(AM)	78(PM)	79(AM)	79(PM)	80(AM)	80(PM)	81(AM)	
Male	Control	0	01M01			-	-	-	-	-	-	-	
			01M02			-	-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-	-
	Linalool oxide	80	02M01				-	-	-	-	-	-	-
			02M02				-	-	-	-	-	-	-
			02M03				-	-	-	-	-	-	-
			02M04				-	-	-	-	-	-	-
			02M05				-	-	-	-	-	-	-
			02M06				-	-	-	-	-	-	-
			02M07				-	-	-	-	-	-	-
			02M08				-	-	-	-	-	-	-
			02M09				-	-	-	-	-	-	-
			02M10				-	-	-	-	-	-	-
	Linalool oxide	250	03M01				-	-	-	-	-	-	-
			03M02				-	-	-	-	-	-	-
			03M03				-	-	-	-	-	-	-
			03M04				-	-	-	-	-	-	-
			03M05				-	-	-	-	-	-	-
			03M06				-	-	-	-	-	-	-
			03M07				-	-	-	-	-	-	-
			03M08				-	-	-	-	-	-	-
			03M09				-	-	-	-	-	-	-
			03M10				-	-	-	-	-	-	-
Linalool oxide	800	04M01				-	-	-	-	-	-	-	
		04M02				-	-	-	-	c	-	c	
		04M03				-	-	-	-	-	-	-	
		04M04				-	-	-	-	-	-	-	
		04M05				-	-	-	-	-	-	-	
		04M06				-	-	c	-	-	-	-	
		04M07				-	-	c	-	c	-	c	
		04M08				c	-	c	-	c	-	c	
		04M09				c	-	c	-	-	-	c	
		04M10				-	-	-	-	c	-	c	

c : Salivation

- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						81(PM)	82(AM)	82(PM)	83(AM)	83(PM)	84(AM)	84(PM)
Male	Control	0	01M01			-	-	-	-	-	-	-
			01M02			-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-
	Linalool oxide	80	02M01			-	-	-	-	-	-	-
			02M02			-	-	-	-	-	-	-
			02M03			-	-	-	-	-	-	-
			02M04			-	-	-	-	-	-	-
			02M05			-	-	-	-	-	-	-
			02M06			-	-	-	-	-	-	-
			02M07			-	-	-	-	-	-	-
			02M08			-	-	-	-	-	-	-
			02M09			-	-	-	-	-	-	-
			02M10			-	-	-	-	-	-	-
	Linalool oxide	250	03M01			-	-	-	-	-	-	-
			03M02			-	-	-	-	-	-	-
			03M03			-	-	-	-	-	-	-
			03M04			-	-	-	-	-	-	-
			03M05			-	-	-	-	-	-	-
			03M06			-	-	-	-	-	-	-
			03M07			-	-	-	-	-	-	-
			03M08			-	-	-	-	-	-	-
			03M09			-	-	-	-	-	-	-
			03M10			-	-	-	-	-	-	-
	Linalool oxide	800	04M01			-	-	-	-	-	-	-
			04M02			-	c	-	-	-	c	-
			04M03			-	-	-	-	-	-	-
04M04					-	-	-	-	-	-	-	
04M05					-	-	-	-	-	-	-	
04M06					-	-	-	-	-	-	-	
04M07					-	c	-	c	-	c	-	
04M08					-	c	-	c	-	c	-	
04M09					-	c	-	c	-	c	-	
04M10					-	c	-	c	-	c	-	

c : Salivation

- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						85(AM)	85(PM)	86(AM)	86(PM)	87(AM)	87(PM)	88(AM)
Male	Control	0	01M01			-	-	-	-	-	-	-
			01M02			-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-
	Linalool oxide	80	02M01			-	-	-	-	-	-	-
			02M02			-	-	-	-	-	-	-
			02M03			-	-	-	-	-	-	-
			02M04			-	-	-	-	-	-	-
			02M05			-	-	-	-	-	-	-
			02M06			-	-	-	-	-	-	-
			02M07			-	-	-	-	-	-	-
			02M08			-	-	-	-	-	-	-
			02M09			-	-	-	-	-	-	-
			02M10			-	-	-	-	-	-	-
	Linalool oxide	250	03M01			-	-	-	-	-	-	-
			03M02			-	-	-	-	-	-	-
			03M03			-	-	-	-	-	-	-
			03M04			-	-	-	-	-	-	-
			03M05			-	-	-	-	-	-	-
			03M06			-	-	-	-	-	-	-
			03M07			-	-	-	-	-	-	-
			03M08			-	-	-	-	-	-	-
			03M09			-	-	-	-	-	-	-
			03M10			-	-	-	-	-	-	-
	Linalool oxide	800	04M01			-	-	-	-	-	-	-
			04M02			c	-	-	-	-	-	-
			04M03			-	-	-	-	-	-	-
			04M04			-	-	-	-	-	-	-
			04M05			-	-	-	-	-	-	-
04M06					-	-	-	-	-	-	-	
04M07					c	-	c	-	c	-	c	
04M08					c	-	c	-	c	-	c	
04M09					c	-	-	-	-	-	c	
04M10					c	-	c	-	c	-	c	

c : Salivation
 -: Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						88(PM)	89(AM)	89(PM)	90(AM)	90(PM)	91(AM)	91(PM)
Male	Control	0	01M01			-	-	-	-	-	-	-
			01M02			-	-	-	-	-	-	-
			01M03			-	-	-	-	-	-	-
			01M04			-	-	-	-	-	-	-
			01M05			-	-	-	-	-	-	-
			01M06			-	-	-	-	-	-	-
			01M07			-	-	-	-	-	-	-
			01M08			-	-	-	-	-	-	-
			01M09			-	-	-	-	-	-	-
			01M10			-	-	-	-	-	-	-
	Linalool oxide	80	02M01			-	-	-	-	-	-	-
			02M02			-	-	-	-	-	-	-
			02M03			-	-	-	-	-	-	-
			02M04			-	-	-	-	-	-	-
			02M05			-	-	-	-	-	-	-
			02M06			-	-	-	-	-	-	-
			02M07			-	-	-	-	-	-	-
			02M08			-	-	-	-	-	-	-
			02M09			-	-	-	-	-	-	-
			02M10			-	-	-	-	-	-	-
	Linalool oxide	250	03M01			-	-	-	-	-	-	-
			03M02			-	-	-	-	-	-	-
			03M03			-	-	-	-	-	-	-
			03M04			-	-	-	-	-	-	-
			03M05			-	-	-	-	-	-	-
			03M06			-	-	-	-	-	-	-
			03M07			-	-	-	-	-	-	-
			03M08			-	-	-	-	-	-	-
			03M09			-	-	-	-	-	-	-
			03M10			-	-	-	-	-	-	-
Linalool oxide	800	04M01			-	-	-	-	-	-	-	
		04M02			-	-	-	-	-	-	-	
		04M03			-	-	-	-	-	-	-	
		04M04			-	-	-	-	-	-	-	
		04M05			-	-	-	-	-	-	-	
		04M06			-	-	-	-	-	-	c	
		04M07			-	-	-	-	-	-	c	
		04M08			-	-	-	-	-	-	-	
		04M09			-	c	-	-	-	-	-	
		04M10			-	c	-	-	c	-	-	

c : Salivation
 -: Normal

Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day			
						92(AM)	92(PM)	93(AM)	
Male	Control	0	01M01			-			
			01M02			-			
			01M03			-			
			01M04			-			
			01M05			-			
			01M06			-			
			01M07			-			
			01M08			-			
			01M09			-			
			01M10			-			
	Linalool oxide	80	02M01				-		
			02M02				-		
			02M03				-		
			02M04				-		
			02M05				-		
			02M06				-		
			02M07				-		
			02M08				-		
			02M09				-		
			02M10				-		
	Linalool oxide	250	03M01				-		
			03M02				-		
			03M03				-		
			03M04				-		
			03M05				-		
			03M06				-		
			03M07				-		
			03M08				-		
			03M09				-		
			03M10				-		
	Linalool oxide	800	04M01				-		
			04M02				-		
			04M03				-		
04M04						-			
04M05						-			
04M06						-			
04M07						-			
04M08						-			
04M09						-			
04M10						-			

- : Normal





Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						1(AM)	1(PM)	2(AM)	2(PM)	3(AM)	3(PM)	4(AM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-
			02F02			-	-	-	-	-	-	-
			02F03			-	-	-	-	-	-	-
			02F04			-	-	-	-	-	-	-
			02F05			-	-	-	-	-	-	-
			02F06			-	-	-	-	-	-	-
			02F07			-	-	-	-	-	-	-
			02F08			-	-	-	-	-	-	-
			02F09			-	-	-	-	-	-	-
			02F10			-	-	-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-
			03F02			-	-	-	-	-	-	-
			03F03			-	-	-	-	-	-	-
			03F04			-	-	-	-	-	-	-
			03F05			-	-	-	-	-	-	-
			03F06			-	-	-	-	-	-	-
			03F07			-	-	-	-	-	-	-
			03F08			-	-	-	-	-	-	-
			03F09			-	-	-	-	-	-	-
			03F10			-	-	-	-	-	-	-
	Linalool oxide	800	04F01				b	-	-	-	-	-
			04F02			-	-	-	-	-	-	-
			04F03			b	-	-	-	-	-	-
04F04					b	-	b	-	b	-	b	
04F05					b	-	b	-	-	-	-	
04F06					-	-	-	-	-	-	-	
04F07					-	-	b	-	b	-	b	
04F08					-	-	-	-	-	-	-	
04F09					b	-	-	-	-	-	-	
04F10					-	-	-	-	-	-	-	

b : Abnormal gait
 - : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						4(PM)	5(AM)	5(PM)	6(AM)	6(PM)	7(AM)	7(PM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-
			02F02				-	-	-	-	-	-
			02F03					-	-	-	-	-
			02F04					-	-	-	-	-
			02F05					-	-	-	-	-
			02F06					-	-	-	-	-
			02F07					-	-	-	-	-
			02F08					-	-	-	-	-
			02F09					-	-	-	-	-
			02F10					-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-
			03F02				-	-	-	-	-	-
			03F03					-	-	-	-	-
			03F04					-	-	-	-	-
			03F05					-	-	-	-	-
			03F06					-	-	-	-	-
			03F07					-	-	-	-	-
			03F08					-	-	-	-	-
			03F09					-	-	-	-	-
			03F10					-	-	-	-	-
Linalool oxide	800	04F01				-	-	-	-	-	-	
		04F02				-	-	-	-	-	-	
		04F03					-	-	-	-	-	
		04F04					-	-	-	-	-	
		04F05					-	-	-	-	-	
		04F06					-	-	-	-	-	
		04F07					-	b	-	-	-	
		04F08					-	-	-	-	-	
		04F09					-	-	-	-	b	
		04F10					-	-	-	b	-	

b : Abnormal gait
 - : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						8(AM)	8(PM)	9(AM)	9(PM)	10(AM)	10(PM)	11(AM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-
			02F02				-	-	-	-	-	-
			02F03					-	-	-	-	-
			02F04					-	-	-	-	-
			02F05					-	-	-	-	-
			02F06					-	-	-	-	-
			02F07					-	-	-	-	-
			02F08					-	-	-	-	-
			02F09					-	-	-	-	-
			02F10					-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-
			03F02				-	-	-	-	-	-
			03F03					-	-	-	-	-
			03F04					-	-	-	-	-
			03F05					-	-	-	-	-
			03F06					-	-	-	-	-
			03F07					-	-	-	-	-
			03F08					-	-	-	-	-
			03F09					-	-	-	-	-
			03F10					-	-	-	-	-
	Linalool oxide	800	04F01				-	-	-	-	-	-
			04F02				-	-	-	-	-	-
			04F03					-	-	-	-	-
			04F04					-	-	-	-	-
			04F05					-	-	-	-	-
04F06							-	-	-	-	-	
04F07							-	-	-	-	-	
04F08							-	-	-	-	-	
04F09							-	-	-	-	-	
04F10							-	-	-	-	-	

- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						11(PM)	12(AM)	12(PM)	13(AM)	13(PM)	14(AM)	14(PM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-
			02F02				-	-	-	-	-	-
			02F03					-	-	-	-	-
			02F04					-	-	-	-	-
			02F05					-	-	-	-	-
			02F06					-	-	-	-	-
			02F07					-	-	-	-	-
			02F08					-	-	-	-	-
			02F09					-	-	-	-	-
			02F10					-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-
			03F02				-	-	-	-	-	-
			03F03					-	-	-	-	-
			03F04					-	-	-	-	-
			03F05					-	-	-	-	-
			03F06					-	-	-	-	-
			03F07					-	-	-	-	-
			03F08					-	-	-	-	-
			03F09					-	-	-	-	-
			03F10					-	-	-	-	-
	Linalool oxide	800	04F01				-	-	-	-	-	-
			04F02				-	-	-	-	-	-
			04F03					-	-	-	-	-
04F04							-	-	-	-	-	
04F05							-	-	-	-	-	
04F06							-	-	-	-	-	
04F07							-	-	-	-	-	
04F08							-	-	-	-	-	
04F09							-	-	-	-	-	
04F10							-	-	-	-	-	

- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						15(AM)	15(PM)	16(AM)	16(PM)	17(AM)	17(PM)	18(AM)	
Female	Control	0	01F01			-	-	-	-	-	-	-	
			01F02			-	-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-	-
			02F02				-	-	-	-	-	-	-
			02F03				-	-	-	-	-	-	-
			02F04				-	-	-	-	-	-	-
			02F05				-	-	-	-	-	-	-
			02F06				-	-	-	-	-	-	-
			02F07				-	-	-	-	-	-	-
			02F08				-	-	-	-	-	-	-
			02F09				-	-	-	-	-	-	-
			02F10				-	-	-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-	-
			03F02				-	-	-	-	-	-	-
			03F03				-	-	-	-	-	-	-
			03F04				-	-	-	-	-	-	-
			03F05				-	-	-	-	-	-	-
			03F06				-	-	-	-	-	-	-
			03F07				-	-	-	-	-	-	-
			03F08				-	-	-	-	-	-	-
			03F09				-	-	-	-	-	-	-
			03F10				-	-	-	-	-	-	-
Linalool oxide	800	04F01				-	-	-	-	-	-	-	
		04F02				-	-	-	-	-	-	-	
		04F03				c	-	-	-	-	-	-	
		04F04				c	-	c	-	c	-	-	
		04F05				c	-	-	-	-	-	-	
		04F06				c	-	-	-	-	-	c	
		04F07				-	-	c	-	-	-	-	
		04F08				-	-	-	-	-	-	-	
		04F09				-	-	c	-	-	-	-	
		04F10				-	-	-	-	-	-	c	

c : Salivation
- : Normal

Appendix 1 General condition - Individual observations (Continued)



Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						18(PM)	19(AM)	19(PM)	20(AM)	20(PM)	21(AM)	21(PM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01			-	-	-	-	-	-	-
			02F02			-	-	-	-	-	-	-
			02F03			-	-	-	-	-	-	-
			02F04			-	-	-	-	-	-	-
			02F05			-	-	-	-	-	-	-
			02F06			-	-	-	-	-	-	-
			02F07			-	-	-	-	-	-	-
			02F08			-	-	-	-	-	-	-
			02F09			-	-	-	-	-	-	-
			02F10			-	-	-	-	-	-	-
	Linalool oxide	250	03F01			-	-	-	-	-	-	-
			03F02			-	-	-	-	-	-	-
			03F03			-	-	-	-	-	-	-
			03F04			-	-	-	-	-	-	-
			03F05			-	-	-	-	-	-	-
			03F06			-	-	-	-	-	-	-
			03F07			-	-	-	-	-	-	-
			03F08			-	-	-	-	-	-	-
			03F09			-	-	-	-	-	-	-
			03F10			-	-	-	-	-	-	-
Linalool oxide	800	04F01			-	-	-	-	-	-	-	
		04F02			-	-	-	-	-	-	-	
		04F03			-	-	-	-	-	c	-	
		04F04			-	-	-	-	-	-	-	
		04F05			-	-	-	-	-	-	-	
		04F06			-	c	-	c	-	-	-	
		04F07			-	-	-	-	-	-	-	
		04F08			-	-	-	-	-	-	-	
		04F09			-	-	-	c	-	c	-	
		04F10			-	c	-	c	-	c	-	

c : Salivation
- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						22(AM)	22(PM)	23(AM)	23(PM)	24(AM)	24(PM)	25(AM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01			-	-	-	-	-	-	-
			02F02			-	-	-	-	-	-	-
			02F03			-	-	-	-	-	-	-
			02F04			-	-	-	-	-	-	-
			02F05			-	-	-	-	-	-	-
			02F06			-	-	-	-	-	-	-
			02F07			-	-	-	-	-	-	-
			02F08			-	-	-	-	-	-	-
			02F09			-	-	-	-	-	-	-
			02F10			-	-	-	-	-	-	-
	Linalool oxide	250	03F01			-	-	-	-	-	-	-
			03F02			-	-	-	-	-	-	-
			03F03			-	-	-	-	-	-	-
			03F04			-	-	-	-	-	-	-
			03F05			-	-	-	-	-	-	-
			03F06			-	-	-	-	-	-	-
			03F07			-	-	-	-	-	-	-
			03F08			-	-	-	-	-	-	-
			03F09			-	-	-	-	-	-	-
			03F10			-	-	-	-	-	-	-
	Linalool oxide	800	04F01			-	-	-	-	-	-	-
			04F02			-	-	-	-	-	-	-
			04F03			-	-	-	-	c	-	c
04F04					-	-	-	-	-	-	-	
04F05					c	-	c	-	c	-	c	
04F06					c	-	c	-	c	-	c	
04F07					c	-	-	-	c	-	c	
04F08					c	-	-	-	-	-	-	
04F09					c	-	c	-	-	-	-	
04F10					-	-	-	-	-	-	-	

c : Salivation
 - : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						25(PM)	26(AM)	26(PM)	27(AM)	27(PM)	28(AM)	28(PM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01			-	-	-	-	-	-	-
			02F02			-	-	-	-	-	-	-
			02F03			-	-	-	-	-	-	-
			02F04			-	-	-	-	-	-	-
			02F05			-	-	-	-	-	-	-
			02F06			-	-	-	-	-	-	-
			02F07			-	-	-	-	-	-	-
			02F08			-	-	-	-	-	-	-
			02F09			-	-	-	-	-	-	-
			02F10			-	-	-	-	-	-	-
	Linalool oxide	250	03F01			-	-	-	-	-	-	-
			03F02			-	-	-	-	-	-	-
			03F03			-	-	-	-	-	-	-
			03F04			-	-	-	-	-	-	-
			03F05			-	-	-	-	-	-	-
			03F06			-	-	-	-	-	-	-
			03F07			-	-	-	-	-	-	-
			03F08			-	-	-	-	-	-	-
			03F09			-	-	-	-	-	-	-
			03F10			-	-	-	-	-	-	-
	Linalool oxide	800	04F01			-	-	-	-	-	-	-
			04F02			-	-	-	-	-	-	-
			04F03			-	-	-	-	-	-	-
04F04					-	-	-	-	-	-	-	
04F05					-	c	-	-	-	-	-	
04F06					-	-	-	-	-	-	-	
04F07					-	c	-	c	-	c	-	
04F08					-	-	-	-	-	-	-	
04F09					-	c	-	c	-	-	-	
04F10					-	-	-	-	-	-	-	

c : Salivation
 - : Normal

Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						29(AM)	29(PM)	30(AM)	30(PM)	31(AM)	31(PM)	32(AM)	
Female	Control	0	01F01			-	-	-	-	-	-	-	
			01F02			-	-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-	-
			02F02				-	-	-	-	-	-	-
			02F03				-	-	-	-	-	-	-
			02F04				-	-	-	-	-	-	-
			02F05				-	-	-	-	-	-	-
			02F06				-	-	-	-	-	-	-
			02F07				-	-	-	-	-	-	-
			02F08				-	-	-	-	-	-	-
			02F09				-	-	-	-	-	-	-
			02F10				-	-	-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-	-
			03F02				-	-	-	-	-	-	-
			03F03				-	-	-	-	-	-	-
			03F04				-	-	-	-	-	-	-
			03F05				-	-	-	-	-	-	-
			03F06				-	-	-	-	-	-	-
			03F07				-	-	-	-	-	-	-
			03F08				-	-	-	-	-	-	-
			03F09				-	-	-	-	-	-	-
			03F10				-	-	-	-	-	-	-
	Linalool oxide	800	04F01				-	-	-	-	-	-	-
			04F02				-	-	-	-	-	-	c
			04F03				-	-	-	-	-	-	c
			04F04				-	-	c	-	-	-	-
04F05						-	-	c	-	-	-	c	
04F06						c	-	c	-	c	-	c	
04F07						c	-	c	-	c	-	c	
04F08						-	-	-	-	-	-	-	
04F09						c	-	-	-	c	-	c	
04F10						-	-	c	-	c	-	-	

c : Salivation

- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						32(PM)	33(AM)	33(PM)	34(AM)	34(PM)	35(AM)	35(PM)	
Female	Control	0	01F01			-	-	-	-	-	-	-	
			01F02			-	-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-	-
			02F02				-	-	-	-	-	-	-
			02F03				-	-	-	-	-	-	-
			02F04				-	-	-	-	-	-	-
			02F05				-	-	-	-	-	-	-
			02F06				-	-	-	-	-	-	-
			02F07				-	-	-	-	-	-	-
			02F08				-	-	-	-	-	-	-
			02F09				-	-	-	-	-	-	-
			02F10				-	-	-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-	-
			03F02				-	-	-	-	-	-	-
			03F03				-	-	-	-	-	-	-
			03F04				-	-	-	-	-	-	-
			03F05				-	-	-	-	-	-	-
			03F06				-	-	-	-	-	-	-
			03F07				-	-	-	-	-	-	-
			03F08				-	-	-	-	-	-	-
			03F09				-	-	-	-	-	-	-
			03F10				-	-	-	-	-	-	-
	Linalool oxide	800	04F01				-	-	-	-	-	-	-
			04F02				-	c	-	c	-	-	-
			04F03				-	-	-	-	-	-	-
04F04						-	-	-	-	-	-	-	
04F05						-	-	-	-	-	-	-	
04F06						-	c	-	c	-	c	-	
04F07						-	c	-	c	-	c	-	
04F08						-	-	-	-	-	-	-	
04F09						-	c	-	c	-	c	-	
04F10						-	-	-	-	-	-	-	

c : Salivation
- : Normal

Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						36(AM)	36(PM)	37(AM)	37(PM)	38(AM)	38(PM)	39(AM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-
			02F02				-	-	-	-	-	-
			02F03					-	-	-	-	-
			02F04					-	-	-	-	-
			02F05					-	-	-	-	-
			02F06					-	-	-	-	-
			02F07					-	-	-	-	-
			02F08					-	-	-	-	-
			02F09					-	-	-	-	-
			02F10					-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-
			03F02				-	-	-	-	-	-
			03F03				-	-	-	-	-	-
			03F04				-	-	-	-	-	-
			03F05				-	-	-	-	-	-
			03F06				-	-	-	-	-	-
			03F07				-	-	-	-	-	-
			03F08				-	-	-	-	-	-
			03F09				-	-	-	-	-	-
			03F10				-	-	-	-	-	-
Linalool oxide	800	04F01				-	-	-	-	-	-	
		04F02				c	-	-	-	-	-	
		04F03				-	-	-	-	-	-	
		04F04				-	-	-	-	-	-	
		04F05				-	-	-	-	-	-	
		04F06				c	-	c	-	c	-	c
		04F07				c	-	c	-	c	-	c
		04F08				-	-	-	-	-	-	-
		04F09				c	-	-	-	-	-	-
		04F10				-	-	-	-	-	-	-

c : Salivation
- : Normal

Appendix 1 General condition - Individual observations (Continued)



Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						39(PM)	40(AM)	40(PM)	41(AM)	41(PM)	42(AM)	42(PM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-
			02F02			-	-	-	-	-	-	-
			02F03			-	-	-	-	-	-	-
			02F04			-	-	-	-	-	-	-
			02F05			-	-	-	-	-	-	-
			02F06			-	-	-	-	-	-	-
			02F07			-	-	-	-	-	-	-
			02F08			-	-	-	-	-	-	-
			02F09			-	-	-	-	-	-	-
			02F10			-	-	-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-
			03F02			-	-	-	-	-	-	-
			03F03			-	-	-	-	-	-	-
			03F04			-	-	-	-	-	-	-
			03F05			-	-	-	-	-	-	-
			03F06			-	-	-	-	-	-	-
			03F07			-	-	-	-	-	-	-
			03F08			-	-	-	-	-	-	-
			03F09			-	-	-	-	-	-	-
			03F10			-	-	-	-	-	-	-
Linalool oxide	800	04F01				-	-	-	-	-	-	
		04F02			-	-	-	-	-	-	-	
		04F03			-	-	-	-	-	-	-	
		04F04			-	-	-	-	-	-	-	
		04F05			-	-	-	-	-	c	-	
		04F06			-	c	-	c	-	c	-	
		04F07			-	c	-	c	-	c	-	
		04F08			-	-	-	-	-	-	-	
		04F09			-	-	-	-	-	c	-	
		04F10			-	-	-	-	-	-	-	

c : Salivation

- : Normal

Appendix 1 General condition - Individual observations (Continued)



Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						43(AM)	43(PM)	44(AM)	44(PM)	45(AM)	45(PM)	46(AM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-
			02F02				-	-	-	-	-	-
			02F03					-	-	-	-	-
			02F04					-	-	-	-	-
			02F05					-	-	-	-	-
			02F06					-	-	-	-	-
			02F07					-	-	-	-	-
			02F08					-	-	-	-	-
			02F09					-	-	-	-	-
			02F10					-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-
			03F02				-	-	-	-	-	-
			03F03					-	-	-	-	-
			03F04					-	-	-	-	-
			03F05					-	-	-	-	-
			03F06					-	-	-	-	-
			03F07					-	-	-	-	-
			03F08					-	-	-	-	-
			03F09					-	-	-	-	-
			03F10					-	-	-	-	-
Linalool oxide	800	04F01				-	-	-	-	-	-	
		04F02				c	-	-	-	-	-	
		04F03				-	-	-	-	-	-	
		04F04				-	-	-	-	-	-	
		04F05				-	-	-	-	-	-	
		04F06				-	-	c	-	c	-	c
		04F07				c	-	c	-	c	-	c
		04F08				-	-	-	-	-	-	-
		04F09				-	-	-	-	-	-	-
		04F10				-	-	-	-	-	-	-

c : Salivation
- : Normal

Appendix 1 General condition - Individual observations (Continued)



Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						46(PM)	47(AM)	47(PM)	48(AM)	48(PM)	49(AM)	49(PM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-
			02F02				-	-	-	-	-	-
			02F03				-	-	-	-	-	-
			02F04				-	-	-	-	-	-
			02F05				-	-	-	-	-	-
			02F06				-	-	-	-	-	-
			02F07				-	-	-	-	-	-
			02F08				-	-	-	-	-	-
			02F09				-	-	-	-	-	-
			02F10				-	-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-
			03F02				-	-	-	-	-	-
			03F03				-	-	-	-	-	-
			03F04				-	-	-	-	-	-
			03F05				-	-	-	-	-	-
			03F06				-	-	-	-	-	-
			03F07				-	-	-	-	-	-
			03F08				-	-	-	-	-	-
			03F09				-	-	-	-	-	-
			03F10				-	-	-	-	-	-
	Linalool oxide	800	04F01				-	-	-	-	-	-
			04F02				-	-	-	-	-	-
			04F03				-	-	-	-	-	-
			04F04				-	-	-	-	-	-
			04F05				-	-	-	-	-	-
04F06						-	c	-	c	-	c	
04F07						-	c	-	c	-	c	
04F08						-	-	-	-	-	-	
04F09						-	-	-	-	-	-	
04F10						-	-	-	-	-	-	

c : Salivation
- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						50(AM)	50(PM)	51(AM)	51(PM)	52(AM)	52(PM)	53(AM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-
			02F02				-	-	-	-	-	-
			02F03				-	-	-	-	-	-
			02F04				-	-	-	-	-	-
			02F05				-	-	-	-	-	-
			02F06				-	-	-	-	-	-
			02F07				-	-	-	-	-	-
			02F08				-	-	-	-	-	-
			02F09				-	-	-	-	-	-
			02F10				-	-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-
			03F02				-	-	-	-	-	-
			03F03				-	-	-	-	-	-
			03F04				-	-	-	-	-	-
			03F05				-	-	-	-	-	-
			03F06				-	-	-	-	-	-
			03F07				-	-	-	-	-	-
			03F08				-	-	-	-	-	-
			03F09				-	-	-	-	-	-
			03F10				-	-	-	-	-	-
	Linalool oxide	800	04F01				-	-	-	-	-	-
			04F02				-	-	c	-	c	-
			04F03				-	-	c	-	-	-
04F04						-	-	-	-	-	-	
04F05						c	-	c	-	c	-	
04F06						-	-	c	-	c	-	
04F07						c	-	c	-	c	-	
04F08						-	-	-	-	-	-	
04F09						c	-	c	-	c	-	
04F10						-	-	c	-	c	-	

c : Salivation
 - : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						53(PM)	54(AM)	54(PM)	55(AM)	55(PM)	56(AM)	56(PM)	
Female	Control	0	01F01			-	-	-	-	-	-	-	
			01F02			-	-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-	-
			02F02				-	-	-	-	-	-	-
			02F03				-	-	-	-	-	-	-
			02F04				-	-	-	-	-	-	-
			02F05				-	-	-	-	-	-	-
			02F06				-	-	-	-	-	-	-
			02F07				-	-	-	-	-	-	-
			02F08				-	-	-	-	-	-	-
			02F09				-	-	-	-	-	-	-
			02F10				-	-	-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-	-
			03F02				-	-	-	-	-	-	-
			03F03				-	-	-	-	-	-	-
			03F04				-	-	-	-	-	-	-
			03F05				-	-	-	-	-	-	-
			03F06				-	-	-	-	-	-	-
			03F07				-	-	-	-	-	-	-
			03F08				-	-	-	-	-	-	-
			03F09				-	-	-	-	-	-	-
			03F10				-	-	-	-	-	-	-
Linalool oxide	800	04F01				-	-	-	-	-	-	-	
		04F02				-	-	-	-	-	-	-	
		04F03				-	-	-	-	-	-	-	
		04F04				-	-	-	-	-	-	-	
		04F05				-	-	-	c	-	c	-	
		04F06				-	c	-	c	-	c	-	
		04F07				-	c	-	c	-	c	-	
		04F08				-	-	-	-	-	-	-	
		04F09				-	c	-	-	-	-	-	
		04F10				-	c	-	c	-	-	-	

c : Salivation
 - : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						57(AM)	57(PM)	58(AM)	58(PM)	59(AM)	59(PM)	60(AM)	
Female	Control	0	01F01			-	-	-	-	-	-	-	
			01F02			-	-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-	-
			02F02				-	-	-	-	-	-	-
			02F03				-	-	-	-	-	-	-
			02F04				-	-	-	-	-	-	-
			02F05				-	-	-	-	-	-	-
			02F06				-	-	-	-	-	-	-
			02F07				-	-	-	-	-	-	-
			02F08				-	-	-	-	-	-	-
			02F09				-	-	-	-	-	-	-
			02F10				-	-	-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-	-
			03F02				-	-	-	-	-	-	-
			03F03				-	-	-	-	-	-	-
			03F04				-	-	-	-	-	-	-
			03F05				-	-	-	-	-	-	-
			03F06				-	-	-	-	-	-	-
			03F07				-	-	-	-	-	-	-
			03F08				-	-	-	-	-	-	-
			03F09				-	-	-	-	-	-	-
			03F10				-	-	-	-	-	-	-
Linalool oxide	800	04F01				-	-	-	-	-	-	-	
		04F02				c	-	c	-	c	-	c	
		04F03				-	-	-	-	-	-	-	
		04F04				-	-	-	-	-	-	-	
		04F05				c	-	c	-	c	-	-	
		04F06				c	-	c	-	c	-	c	
		04F07				c	-	c	-	c	-	c	
		04F08				-	-	-	-	-	-	-	
		04F09				c	-	c	-	c	-	-	
		04F10				-	-	-	-	-	-	-	

c : Salivation

- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						60(PM)	61(AM)	61(PM)	62(AM)	62(PM)	63(AM)	63(PM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01			-	-	-	-	-	-	-
			02F02			-	-	-	-	-	-	-
			02F03			-	-	-	-	-	-	-
			02F04			-	-	-	-	-	-	-
			02F05			-	-	-	-	-	-	-
			02F06			-	-	-	-	-	-	-
			02F07			-	-	-	-	-	-	-
			02F08			-	-	-	-	-	-	-
			02F09			-	-	-	-	-	-	-
			02F10			-	-	-	-	-	-	-
	Linalool oxide	250	03F01			-	-	-	-	-	-	-
			03F02			-	-	-	-	-	-	-
			03F03			-	-	-	-	-	-	-
			03F04			-	-	-	-	-	-	-
			03F05			-	-	-	-	-	-	-
			03F06			-	-	-	-	-	-	-
			03F07			-	-	-	-	-	-	-
			03F08			-	-	-	-	-	-	-
			03F09			-	-	-	-	-	-	-
			03F10			-	-	-	-	-	-	-
	Linalool oxide	800	04F01			-	-	-	-	-	-	-
			04F02			-	c	-	c	-	c	-
			04F03			-	-	-	-	-	-	-
			04F04			-	-	-	-	-	-	-
			04F05			-	-	-	-	-	-	-
04F06					-	c	-	c	-	c	-	
04F07					-	c	-	c	-	c	-	
04F08					-	-	-	-	-	-	-	
04F09					-	-	-	-	-	-	-	
04F10					-	-	-	-	-	-	-	

c : Salivation
 - : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						64(AM)	64(PM)	65(AM)	65(PM)	66(AM)	66(PM)	67(AM)	
Female	Control	0	01F01			-	-	-	-	-	-	-	
			01F02			-	-	-	-	-	-	-	
			01F03			-	-	-	-	-	-	-	
			01F04			-	-	-	-	-	-	-	
			01F05			-	-	-	-	-	-	-	
			01F06			-	-	-	-	-	-	-	
			01F07			-	-	-	-	-	-	-	
			01F08			-	-	-	-	-	-	-	
			01F09			-	-	-	-	-	-	-	
			01F10			-	-	-	-	-	-	-	
	Linalool oxide	80	02F01				-	-	-	-	-	-	
			02F02				-	-	-	-	-	-	
			02F03				-	-	-	-	-	-	
			02F04				-	-	-	-	-	-	
			02F05				-	-	-	-	-	-	
			02F06				-	-	-	-	-	-	
			02F07				-	-	-	-	-	-	
			02F08				-	-	-	-	-	-	
			02F09				-	-	-	-	-	-	
			02F10				-	-	-	-	-	-	
	Linalool oxide	250	03F01				-	-	-	-	-	-	
			03F02				-	-	-	-	-	-	
			03F03				-	-	-	-	-	-	
			03F04				-	-	-	-	-	-	
			03F05				-	-	-	-	-	-	
			03F06				-	-	-	-	-	-	
			03F07				-	-	-	-	-	-	
			03F08				-	-	-	-	-	-	
			03F09				-	-	-	-	-	-	
			03F10				-	-	-	-	-	-	
	Linalool oxide	800	04F01				-	-	-	-	-	-	
			04F02				-	-	c	-	c	-	c
			04F03				c	-	-	-	-	-	-
			04F04				-	-	-	-	-	-	-
			04F05				-	-	-	-	-	-	c
04F06						c	-	c	-	c	-	c	
04F07						c	-	c	-	c	-	c	
04F08						-	-	-	-	-	-	-	
04F09						-	-	-	-	-	-	-	
04F10						-	-	-	-	-	-	-	

c : Salivation
- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						67(PM)	68(AM)	68(PM)	69(AM)	69(PM)	70(AM)	70(PM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01			-	-	-	-	-	-	-
			02F02			-	-	-	-	-	-	-
			02F03			-	-	-	-	-	-	-
			02F04			-	-	-	-	-	-	-
			02F05			-	-	-	-	-	-	-
			02F06			-	-	-	-	-	-	-
			02F07			-	-	-	-	-	-	-
			02F08			-	-	-	-	-	-	-
			02F09			-	-	-	-	-	-	-
			02F10			-	-	-	-	-	-	-
	Linalool oxide	250	03F01			-	-	-	-	-	-	-
			03F02			-	-	-	-	-	-	-
			03F03			-	-	-	-	-	-	-
			03F04			-	-	-	-	-	-	-
			03F05			-	-	-	-	-	-	-
			03F06			-	-	-	-	-	-	-
			03F07			-	-	-	-	-	-	-
			03F08			-	-	-	-	-	-	-
			03F09			-	-	-	-	-	-	-
			03F10			-	-	-	-	-	-	-
	Linalool oxide	800	04F01			-	-	-	-	-	-	-
			04F02			-	c	-	c	-	c	-
			04F03			-	-	-	-	-	-	-
04F04					-	-	-	-	-	-	-	
04F05					-	c	-	c	-	c	-	
04F06					-	c	-	c	-	c	-	
04F07					-	c	-	c	-	c	-	
04F08					-	-	-	-	-	-	-	
04F09					-	-	-	-	-	-	-	
04F10					-	-	-	-	-	-	-	

c : Salivation
 - : Normal

Appendix 1 General condition - Individual observations (Continued)



Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						71(AM)	71(PM)	72(AM)	72(PM)	73(AM)	73(PM)	74(AM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-
			02F02				-	-	-	-	-	-
			02F03				-	-	-	-	-	-
			02F04				-	-	-	-	-	-
			02F05				-	-	-	-	-	-
			02F06				-	-	-	-	-	-
			02F07				-	-	-	-	-	-
			02F08				-	-	-	-	-	-
			02F09				-	-	-	-	-	-
			02F10				-	-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-
			03F02				-	-	-	-	-	-
			03F03				-	-	-	-	-	-
			03F04				-	-	-	-	-	-
			03F05				-	-	-	-	-	-
			03F06				-	-	-	-	-	-
			03F07				-	-	-	-	-	-
			03F08				-	-	-	-	-	-
			03F09				-	-	-	-	-	-
			03F10				-	-	-	-	-	-
Linalool oxide	800	04F01				-	-	-	-	-	-	
		04F02				c	-	c	-	c	-	c
		04F03				-	-	-	-	-	-	-
		04F04				-	-	-	-	-	-	-
		04F05				c	-	c	-	c	-	-
		04F06				c	-	c	-	c	-	c
		04F07				c	-	c	-	c	-	c
		04F08				-	-	-	-	-	-	-
		04F09				-	-	-	-	-	-	c
		04F10				-	-	-	-	-	-	-

c : Salivation
- : Normal

Appendix 1 General condition - Individual observations (Continued)



Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						74(PM)	75(AM)	75(PM)	76(AM)	76(PM)	77(AM)	77(PM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-
			02F02				-	-	-	-	-	-
			02F03					-	-	-	-	-
			02F04					-	-	-	-	-
			02F05					-	-	-	-	-
			02F06					-	-	-	-	-
			02F07					-	-	-	-	-
			02F08					-	-	-	-	-
			02F09					-	-	-	-	-
			02F10					-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-
			03F02				-	-	-	-	-	-
			03F03					-	-	-	-	-
			03F04					-	-	-	-	-
			03F05					-	-	-	-	-
			03F06					-	-	-	-	-
			03F07					-	-	-	-	-
			03F08					-	-	-	-	-
			03F09					-	-	-	-	-
			03F10					-	-	-	-	-
Linalool oxide	800	04F01				-	-	-	-	-	-	
		04F02				-	c	-	c	-	-	
		04F03				-	-	-	-	-	-	
		04F04				-	-	-	c	-	-	
		04F05				-	c	-	c	-	-	
		04F06				-	-	-	c	-	c	
		04F07				-	c	-	-	-	c	
		04F08				-	-	-	c	-	-	
		04F09				-	-	-	c	-	-	
		04F10				-	-	-	-	-	-	

c : Salivation

- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						78(AM)	78(PM)	79(AM)	79(PM)	80(AM)	80(PM)	81(AM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01			-	-	-	-	-	-	-
			02F02			-	-	-	-	-	-	-
			02F03			-	-	-	-	-	-	-
			02F04			-	-	-	-	-	-	-
			02F05			-	-	-	-	-	-	-
			02F06			-	-	-	-	-	-	-
			02F07			-	-	-	-	-	-	-
			02F08			-	-	-	-	-	-	-
			02F09			-	-	-	-	-	-	-
			02F10			-	-	-	-	-	-	-
	Linalool oxide	250	03F01			-	-	-	-	-	-	-
			03F02			-	-	-	-	-	-	-
			03F03			-	-	-	-	-	-	-
			03F04			-	-	-	-	-	-	-
			03F05			-	-	-	-	-	-	-
			03F06			-	-	-	-	-	-	-
			03F07			-	-	-	-	-	-	-
			03F08			-	-	-	-	-	-	-
			03F09			-	-	-	-	-	-	-
			03F10			-	-	-	-	-	-	-
	Linalool oxide	800	04F01			-	-	-	-	-	-	-
			04F02			-	-	-	-	-	-	-
			04F03			-	-	-	-	-	-	-
04F04					-	-	-	-	-	-	-	
04F05					c	-	c	-	-	-	c	
04F06					c	-	c	-	c	-	c	
04F07					c	-	c	-	c	-	c	
04F08					-	-	-	-	-	-	-	
04F09					c	-	-	-	-	-	-	
04F10					-	-	-	-	-	-	c	

c : Salivation
 - : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						81(PM)	82(AM)	82(PM)	83(AM)	83(PM)	84(AM)	84(PM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01			-	-	-	-	-	-	-
			02F02			-	-	-	-	-	-	-
			02F03			-	-	-	-	-	-	-
			02F04			-	-	-	-	-	-	-
			02F05			-	-	-	-	-	-	-
			02F06			-	-	-	-	-	-	-
			02F07			-	-	-	-	-	-	-
			02F08			-	-	-	-	-	-	-
			02F09			-	-	-	-	-	-	-
			02F10			-	-	-	-	-	-	-
	Linalool oxide	250	03F01			-	-	-	-	-	-	-
			03F02			-	-	-	-	-	-	-
			03F03			-	-	-	-	-	-	-
			03F04			-	-	-	-	-	-	-
			03F05			-	-	-	-	-	-	-
			03F06			-	-	-	-	-	-	-
			03F07			-	-	-	-	-	-	-
			03F08			-	-	-	-	-	-	-
			03F09			-	-	-	-	-	-	-
			03F10			-	-	-	-	-	-	-
	Linalool oxide	800	04F01			-	-	-	-	-	-	-
			04F02			-	-	-	c	-	c	-
			04F03			-	-	-	-	-	-	-
04F04					-	-	-	-	-	-	-	
04F05					-	c	-	c	-	c	-	
04F06					-	c	-	-	-	c	-	
04F07					-	c	-	c	-	c	-	
04F08					-	-	-	-	-	-	-	
04F09					-	-	-	-	-	-	-	
04F10					-	c	-	-	-	-	-	

c : Salivation
 - : Normal

Appendix 1 General condition - Individual observations (Continued)



Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day						
						85(AM)	85(PM)	86(AM)	86(PM)	87(AM)	87(PM)	88(AM)
Female	Control	0	01F01			-	-	-	-	-	-	-
			01F02			-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-
			02F02			-	-	-	-	-	-	-
			02F03			-	-	-	-	-	-	-
			02F04			-	-	-	-	-	-	-
			02F05			-	-	-	-	-	-	-
			02F06			-	-	-	-	-	-	-
			02F07			-	-	-	-	-	-	-
			02F08			-	-	-	-	-	-	-
			02F09			-	-	-	-	-	-	-
			02F10			-	-	-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-
			03F02			-	-	-	-	-	-	-
			03F03			-	-	-	-	-	-	-
			03F04			-	-	-	-	-	-	-
			03F05			-	-	-	-	-	-	-
			03F06			-	-	-	-	-	-	-
			03F07			-	-	-	-	-	-	-
			03F08			-	-	-	-	-	-	-
			03F09			-	-	-	-	-	-	-
			03F10			-	-	-	-	-	-	-
	Linalool oxide	800	04F01				c	-	-	-	-	-
			04F02			-	-	-	-	-	-	-
			04F03			-	-	-	-	-	-	-
04F04					-	-	c	-	-	c	-	
04F05					-	-	-	-	-	-	-	
04F06					-	-	-	-	-	-	-	
04F07					-	-	c	-	-	c	-	
04F08					-	-	-	-	-	-	-	
04F09					-	-	-	-	-	-	-	
04F10					-	-	c	-	-	-	-	

c : Salivation

- : Normal



Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day							
						88(PM)	89(AM)	89(PM)	90(AM)	90(PM)	91(AM)	91(PM)	
Female	Control	0	01F01			-	-	-	-	-	-	-	
			01F02			-	-	-	-	-	-	-	-
			01F03			-	-	-	-	-	-	-	-
			01F04			-	-	-	-	-	-	-	-
			01F05			-	-	-	-	-	-	-	-
			01F06			-	-	-	-	-	-	-	-
			01F07			-	-	-	-	-	-	-	-
			01F08			-	-	-	-	-	-	-	-
			01F09			-	-	-	-	-	-	-	-
			01F10			-	-	-	-	-	-	-	-
	Linalool oxide	80	02F01				-	-	-	-	-	-	-
			02F02				-	-	-	-	-	-	-
			02F03				-	-	-	-	-	-	-
			02F04				-	-	-	-	-	-	-
			02F05				-	-	-	-	-	-	-
			02F06				-	-	-	-	-	-	-
			02F07				-	-	-	-	-	-	-
			02F08				-	-	-	-	-	-	-
			02F09				-	-	-	-	-	-	-
			02F10				-	-	-	-	-	-	-
	Linalool oxide	250	03F01				-	-	-	-	-	-	-
			03F02				-	-	-	-	-	-	-
			03F03				-	-	-	-	-	-	-
			03F04				-	-	-	-	-	-	-
			03F05				-	-	-	-	-	-	-
			03F06				-	-	-	-	-	-	-
			03F07				-	-	-	-	-	-	-
			03F08				-	-	-	-	-	-	-
			03F09				-	-	-	-	-	-	-
			03F10				-	-	-	-	-	-	-
Linalool oxide	800	04F01				-	-	-	-	-	-	-	
		04F02				-	-	-	-	-	-	-	
		04F03				-	-	-	-	-	-	-	
		04F04				-	-	-	-	-	-	-	
		04F05				-	-	-	-	-	-	-	
		04F06				-	-	-	c	-	c	-	
		04F07				-	c	-	-	-	-	-	
		04F08				-	-	-	-	-	-	-	
		04F09				-	-	-	-	-	-	-	
		04F10				-	-	-	-	-	-	-	

c : Salivation
 -: Normal

Appendix 1 General condition - Individual observations (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	(Frequency or time)	Day			
						92(AM)	92(PM)	93(AM)	
Female	Control	0	01F01			-	-	-	
			01F02			-	-	-	
			01F03			-	-	-	
			01F04			-	-	-	
			01F05			-	-	-	
			01F06			-	-	-	
			01F07			-	-	-	
			01F08			-	-	-	
			01F09			-	-	-	
			01F10			-	-	-	
	Linalool oxide	80	02F01				-	-	-
			02F02				-	-	-
			02F03				-	-	-
			02F04				-	-	-
			02F05				-	-	-
			02F06				-	-	-
			02F07				-	-	-
			02F08				-	-	-
			02F09				-	-	-
			02F10				-	-	-
	Linalool oxide	250	03F01				-	-	-
			03F02				-	-	-
			03F03				-	-	-
			03F04				-	-	-
			03F05				-	-	-
			03F06				-	-	-
			03F07				-	-	-
			03F08				-	-	-
			03F09				-	-	-
			03F10				-	-	-
	Linalool oxide	800	04F01				-	-	-
			04F02				-	-	-
			04F03				-	-	-
			04F04				-	-	-
			04F05				-	-	-
04F06						c	-	-	
04F07						-	-	-	
04F08						-	-	-	
04F09						-	-	-	
04F10						-	-	-	

c : Salivation

- : Normal



Appendix 2 Body weights (g) - Individual values

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Initial B.W.	Day					
						7	14	21	28	35	42
Male	Control	0	01M01		216.1	264.0	320.1	356.4	388.7	423.7	450.0
			01M02		223.6	276.5	333.0	388.0	433.0	465.1	498.5
			01M03		234.6	299.1	368.9	416.1	456.2	483.1	519.8
			01M04		232.4	298.6	369.9	430.8	485.1	525.9	569.5
			01M05		229.4	294.5	363.1	417.1	464.2	498.7	534.5
			01M06		226.9	281.3	346.1	393.5	435.4	473.3	496.5
			01M07		222.8	281.2	344.8	398.1	436.0	477.0	502.9
			01M08		222.6	285.1	363.7	428.0	474.8	510.6	546.4
			01M09		221.6	286.8	350.6	404.5	442.3	477.1	507.8
			01M10		228.7	290.5	359.5	418.4	464.3	499.3	530.3
			Mean		225.9	285.8	352.0	405.1	448.0	483.4	515.6
	S.D.		5.6	10.8	16.3	22.3	27.4	28.1	32.7		
	Linalool oxide	80	02M01		223.4	287.3	357.0	416.9	469.6	507.1	548.0
			02M02		221.9	274.4	327.4	371.4	405.8	432.5	460.4
			02M03		214.7	261.9	316.1	352.9	382.3	396.8	423.9
			02M04		219.2	272.7	324.0	357.9	381.0	403.7	426.4
			02M05		214.7	281.0	352.2	398.8	443.2	476.7	496.8
			02M06		235.6	298.2	376.6	430.3	471.1	505.1	531.4
			02M07		224.2	283.8	352.9	414.0	462.7	502.6	545.4
			02M08		227.1	272.1	322.3	361.1	391.5	408.3	430.1
			02M09		231.1	299.2	380.3	439.4	492.0	534.7	564.4
			02M10		228.2	288.9	359.5	414.0	458.7	505.8	531.8
			Mean		224.0	282.0	346.8	395.7	435.8	467.3	495.9
	S.D.		6.8	11.9	23.0	32.1	41.6	51.7	55.8		
	Linalool oxide	250	03M01		221.8	260.6	329.1	363.4	390.6	409.0	436.9
			03M02		227.3	286.1	350.0	395.6	439.5	472.9	497.1
			03M03		217.3	277.9	336.7	369.5	407.8	442.8	467.2
			03M04		234.8	292.9	369.7	428.3	467.1	493.2	525.5
			03M05		217.7	274.5	328.9	355.9	371.9	403.4	430.5
			03M06		220.0	277.5	353.5	391.3	422.4	447.1	470.7
			03M07		226.8	286.7	352.3	412.5	452.7	481.3	510.3
			03M08		228.8	291.4	350.3	384.8	418.3	445.2	473.4
			03M09		224.9	280.5	349.2	390.2	427.9	459.8	492.5
03M10				219.6	272.7	341.1	384.9	420.3	450.5	476.1	
Mean				223.9	280.1	346.1	387.6	421.9	450.5	478.0	
S.D.		5.6	9.7	12.4	21.8	28.0	28.7	29.8			

Appendix 2 Body weights (g) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Day						
					49	56	63	70	77	84	91
Male	Control	0	01M01		476.2	497.8	521.5	534.5	557.0	577.5	586.0
			01M02		523.0	554.3	587.5	616.1	627.6	647.6	650.1
			01M03		539.3	551.7	567.4	590.1	607.8	634.9	653.9
			01M04		599.8	634.5	667.6	688.0	702.0	724.2	731.8
			01M05		556.9	587.6	611.9	636.6	661.0	682.1	691.2
			01M06		524.5	545.4	551.5	575.4	590.6	619.4	614.3
			01M07		537.7	560.9	588.4	617.2	629.8	650.6	668.1
			01M08		565.6	589.6	619.1	626.8	658.6	682.5	697.4
			01M09		535.7	553.1	589.7	611.0	630.3	659.0	675.5
			01M10		545.9	561.0	591.2	597.0	620.4	628.4	637.4
			Mean		540.5	563.6	589.6	609.3	628.5	650.6	660.6
	S.D.		31.9	35.4	39.5	40.3	40.0	40.2	42.2		
	Linalool oxide	80	02M01		582.8	614.0	647.0	665.1	660.0	690.6	699.5
			02M02		488.7	508.4	531.8	543.0	554.0	569.8	572.6
			02M03		430.2	451.7	462.3	470.7	474.1	490.0	490.7
			02M04		449.9	465.5	483.7	494.3	513.6	531.7	542.2
			02M05		519.9	535.1	551.5	569.2	586.7	609.5	612.8
			02M06		545.1	554.9	571.9	590.4	603.7	612.1	629.0
			02M07		571.0	603.2	634.3	662.8	678.5	698.2	712.7
			02M08		440.5	454.5	473.0	487.4	504.3	520.8	529.0
			02M09		595.8	622.7	641.1	647.2	664.8	683.9	688.3
			02M10		556.1	572.5	579.2	615.5	614.1	631.3	645.7
			Mean		518.0	538.3	557.6	574.6	585.4	603.8	612.3
	S.D.		61.9	66.0	69.9	73.8	72.1	74.5	76.8		
	Linalool oxide	250	03M01		447.1	462.5	483.9	490.3	509.0	523.2	524.3
			03M02		520.4	539.6	576.0	589.3	607.8	623.3	637.0
			03M03		495.7	511.0	535.5	557.6	571.4	590.1	592.8
			03M04		550.4	564.7	583.0	606.8	614.1	636.8	638.4
			03M05		449.4	455.4	472.6	484.8	492.8	518.3	515.6
			03M06		487.3	498.0	506.2	528.8	537.1	558.6	551.7
			03M07		529.5	544.6	558.7	568.1	575.5	590.6	595.7
			03M08		493.0	522.5	543.3	565.3	577.0	611.3	615.2
			03M09		510.0	524.6	546.7	568.1	577.4	597.8	601.1
03M10				497.2	516.0	538.8	550.2	568.0	589.9	593.7	
Mean				498.0	513.9	534.5	550.9	563.0	584.0	586.6	
S.D.		32.5	34.5	36.7	39.4	39.1	39.5	42.9			

Appendix 2 Body weights (g) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Initial B.W.	Day					
						7	14	21	28	35	42
Male	Linalool oxide	800	04M01		225.2	285.9	363.2	416.6	461.8	492.1	532.6
			04M02		234.4	289.1	345.0	388.4	416.3	442.4	471.1
			04M03		223.0	283.5	353.2	400.8	444.0	474.4	504.1
			04M04		222.5	277.2	344.7	393.1	434.3	468.6	495.3
			04M05		226.4	284.6	355.5	392.9	427.3	458.4	476.6
			04M06		220.5	265.6	310.3	335.0	355.9	371.3	394.3
			04M07		224.2	277.4	328.5	367.5	396.7	409.5	432.7
			04M08		228.1	292.4	358.2	392.5	418.4	443.4	463.6
			04M09		222.8	280.2	333.2	373.6	392.1	409.8	424.3
			04M10		216.4	268.1	325.4	364.6	393.0	422.7	455.0
						Mean	224.4	280.4	341.7	382.5	414.0
			S.D.	4.8	8.6	16.9	22.9	30.5	36.4	40.8	

Appendix 2 Body weights (g) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Day 49	56	63	70	77	84	91
Male	Linalool oxide	800	04M01		542.6	542.9	558.1	562.9	562.0	571.5	572.3
			04M02		480.1	493.5	512.9	516.8	530.3	551.4	537.3
			04M03		528.2	544.7	571.1	574.0	583.2	599.7	604.7
			04M04		514.1	538.3	560.2	574.3	586.6	590.1	580.6
			04M05		490.8	502.3	517.4	529.9	539.7	563.8	547.4
			04M06		405.1	421.2	435.0	444.6	455.0	471.2	470.0
			04M07		443.1	457.5	467.3	478.7	481.2	489.0	481.6
			04M08		474.5	484.4	501.8	521.2	525.6	540.9	560.7
			04M09		433.6	433.6	452.0	463.2	470.2	474.7	478.8
			04M10		476.0	483.5	505.5	522.2	515.9	542.1	547.8
			Mean		478.8	490.2	508.1	518.8	525.0	539.4	538.1
S.D.		43.0	43.9	46.5	45.2	45.6	46.4	46.5			

Appendix 2 Body weights (g) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Initial B.W.	Day 7	14	21	28	35	42
Female	Control	0	01F01		186.8	218.2	247.4	274.4	293.1	310.5	325.8
			01F02		169.0	194.9	232.9	256.5	274.4	293.4	310.3
			01F03		158.0	178.1	208.0	229.5	244.7	255.5	271.4
			01F04		168.7	195.7	223.7	260.4	271.4	287.3	299.1
			01F05		175.6	194.9	218.8	236.4	262.5	274.8	287.2
			01F06		162.6	186.0	221.2	243.2	261.0	274.6	285.4
			01F07		168.0	187.7	221.8	238.1	255.4	262.2	280.5
			01F08		176.3	200.7	224.6	243.5	269.0	284.5	296.9
			01F09		168.6	182.2	206.1	231.1	245.2	262.7	272.3
			01F10		159.1	173.7	203.2	219.9	232.9	247.9	256.0
			Mean		169.3	191.2	220.8	243.3	261.0	275.3	288.5
			S.D.		8.7	12.8	13.2	16.3	17.4	19.1	20.4
			Linalool oxide	80	02F01		169.4	191.5	221.0	237.7	251.4
02F02		162.4			174.6	202.1	231.2	247.7	254.8	277.7	
02F03		166.4			190.4	218.6	228.5	259.8	269.3	292.4	
02F04		165.4			195.6	213.4	237.3	263.7	279.6	285.4	
02F05		174.1			202.6	214.6	243.5	256.8	267.9	270.9	
02F06		175.5			207.6	233.7	247.7	264.8	282.7	294.1	
02F07		164.5			185.9	206.9	221.7	233.5	253.3	264.9	
02F08		170.6			202.6	235.3	247.6	271.2	291.1	300.9	
02F09		158.8			183.3	208.2	223.2	238.0	259.0	271.2	
02F10		161.0			178.3	202.9	211.2	232.0	246.9	263.6	
Mean		166.8			191.2	215.7	233.0	251.9	267.5	279.9	
S.D.		5.5			11.0	11.7	12.0	13.8	14.2	12.9	
Linalool oxide	250	03F01				172.8	196.6	217.3	230.6	249.8	268.3
		03F02		170.2	202.3	226.1	250.0	265.3	278.1	288.8	
		03F03		162.8	183.7	204.8	218.5	234.5	237.1	256.3	
		03F04		160.8	188.3	211.7	231.0	244.1	263.8	284.2	
		03F05		170.1	195.9	215.3	229.2	232.9	253.3	264.5	
		03F06		165.1	188.7	198.6	203.2	218.3	219.2	227.4	
		03F07		162.6	184.8	210.7	229.0	246.5	255.8	260.5	
		03F08		162.3	181.9	211.6	232.4	250.4	258.1	261.4	
		03F09		173.5	202.2	246.5	264.8	296.2	315.6	317.7	
		03F10		177.9	201.4	227.4	241.0	254.0	262.8	271.0	
		Mean		167.8	192.6	217.0	233.0	249.2	261.2	270.9	
		S.D.		5.9	8.0	13.5	16.7	21.0	25.3	23.7	

Appendix 2 Body weights (g) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Day 49	56	63	70	77	84	91
Female	Control	0	01F01		330.7	354.3	359.8	384.1	390.8	391.6	402.1
			01F02		315.8	316.0	320.7	339.5	338.8	347.0	348.1
			01F03		280.1	287.4	292.5	305.1	298.1	316.8	307.5
			01F04		318.5	330.0	334.5	341.6	341.0	354.3	362.2
			01F05		298.8	301.7	318.6	320.2	324.3	332.7	340.2
			01F06		296.5	302.3	304.8	315.2	311.5	322.6	326.2
			01F07		295.6	302.5	300.2	319.9	314.0	331.5	325.0
			01F08		299.6	311.3	325.4	329.9	327.8	339.8	336.1
			01F09		286.5	293.0	294.6	308.2	316.2	314.6	317.2
			01F10		266.0	277.7	273.8	279.5	278.0	292.1	289.0
			Mean		298.8	307.6	312.5	324.3	324.1	334.3	335.4
			S.D.		19.1	22.0	24.5	27.7	30.0	26.9	31.3
				Linalool oxide	80	02F01		288.0	293.5	293.1	299.4
02F02		298.2				301.6	298.5	314.3	309.6	319.1	336.7
02F03		300.4				309.5	320.1	324.1	324.1	330.2	323.7
02F04		311.2				345.1	349.6	349.8	368.1	355.4	370.5
02F05		286.4				292.4	298.4	300.9	306.1	313.5	315.6
02F06		304.8				317.6	326.0	328.0	331.3	343.3	352.8
02F07		275.1				283.9	296.0	306.8	297.8	309.4	321.3
02F08		301.9				316.5	328.7	345.4	336.2	352.6	366.8
02F09		274.6				279.8	287.5	291.6	287.2	295.4	302.4
02F10		260.8				273.6	278.4	281.4	272.1	280.6	300.7
Mean		290.1				301.4	307.6	314.2	313.0	320.0	329.4
S.D.		16.0				21.5	22.3	22.5	27.7	25.1	26.3
	Linalool oxide	250				03F01		285.3	293.2	306.0	313.5
			03F02		294.0	311.7	320.5	321.6	329.2	329.8	329.9
			03F03		271.7	282.0	285.2	300.8	301.2	299.3	304.7
			03F04		288.2	290.4	305.5	318.4	314.5	330.6	328.0
			03F05		269.5	264.9	285.5	292.7	284.6	292.6	296.2
			03F06		237.0	238.9	242.5	253.0	250.8	268.9	272.8
			03F07		267.7	277.8	280.7	282.0	279.7	290.5	293.4
			03F08		270.3	274.8	273.0	281.1	270.8	277.5	290.6
			03F09		327.6	341.4	356.9	354.1	362.1	370.3	368.9
			03F10		284.0	294.4	292.6	311.2	305.8	305.9	321.1
			Mean		279.5	287.0	294.8	302.8	301.0	308.1	312.9
			S.D.		23.2	27.4	30.5	27.7	31.6	29.8	27.2

Appendix 2 Body weights (g) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Initial B.W.	Day					
						7	14	21	28	35	42
Female	Linalool oxide	800	04F01		166.2	182.8	205.5	214.3	233.6	245.0	258.4
			04F02		172.3	195.9	225.0	242.5	257.2	261.3	272.7
			04F03		164.8	186.8	223.8	251.0	268.4	277.5	297.3
			04F04		158.6	174.6	197.2	218.1	231.7	245.4	248.0
			04F05		177.4	196.4	231.2	247.7	263.4	273.2	291.7
			04F06		167.2	186.5	205.5	214.0	231.5	251.5	257.5
			04F07		175.5	198.3	214.8	238.4	253.9	264.6	267.4
			04F08		165.5	187.7	211.3	229.1	244.9	260.5	267.5
			04F09		164.9	191.6	219.7	240.1	250.2	264.9	272.6
			04F10		169.3	196.8	227.6	237.9	252.3	268.1	278.8
			Mean		168.2	189.7	216.2	233.3	248.7	261.2	271.2
S.D.		5.6	7.5	11.1	13.7	13.1	11.0	15.2			

Appendix 2 Body weights (g) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Day						
					49	56	63	70	77	84	91
Female	Linalool oxide	800	04F01		258.5	268.7	280.7	286.6	294.5	303.3	307.2
			04F02		280.0	286.9	290.9	295.9	299.1	306.7	296.0
			04F03		309.9	315.8	315.6	323.8	330.0	333.6	332.7
			04F04		260.5	268.4	276.1	275.6	278.2	277.5	279.1
			04F05		305.0	310.7	315.6	330.8	324.8	335.4	339.4
			04F06		265.1	279.5	302.9	307.7	306.9	316.0	313.6
			04F07		276.1	279.1	286.1	285.1	291.0	292.9	299.8
			04F08		276.9	286.1	293.3	301.3	295.3	303.3	301.4
			04F09		277.6	276.6	286.7	291.8	289.4	290.6	298.0
			04F10		285.1	290.3	302.1	313.6	302.1	302.9	303.7
			Mean		279.5	286.2	295.0	301.2	301.1	306.2	307.1
S.D.		17.1	16.0	13.7	17.7	15.9	18.2	17.7			

Appendix 3 Food consumption (g/animal/day) - Individual values

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(week)	Week -1	1	2	3	4	5	6	7
Male	Control	0	01M01		20.5	22.0	21.7	21.6	20.5	20.8	20.1	20.3
			01M02		22.1	22.0	21.7	21.6	20.5	20.8	20.1	20.3
			01M03		22.6	23.8	23.8	23.4	23.5	23.0	22.8	21.7
			01M04		22.6	23.8	23.8	23.4	23.5	23.0	22.8	21.7
			01M05		22.8	22.4	23.4	22.9	21.9	21.8	22.8	23.4
			01M06		20.4	22.4	23.4	22.9	21.9	21.8	22.8	23.4
			01M07		20.5	23.0	24.8	25.0	23.5	23.3	22.6	22.8
			01M08		21.8	23.0	24.8	25.0	23.5	23.3	22.6	22.8
			01M09		20.6	24.6	25.3	26.0	24.0	22.6	23.0	22.7
			01M10		22.6	24.6	25.3	26.0	24.0	22.6	23.0	22.7
			Mean		21.7	23.2	23.8	23.8	22.7	22.3	22.3	22.2
	S.D.		1.0	1.0	1.3	1.6	1.4	1.0	1.1	1.1		
	Linalool oxide	80	02M01		21.7	22.5	22.6	23.3	23.5	22.8	22.5	21.7
			02M02		21.4	22.5	22.6	23.3	23.5	22.8	22.5	21.7
			02M03		20.4	21.2	21.7	20.3	19.2	18.5	18.8	18.6
			02M04		22.0	21.2	21.7	20.3	19.2	18.5	18.8	18.6
			02M05		22.6	24.4	25.6	24.4	22.9	21.4	21.2	20.5
			02M06		22.0	24.4	25.6	24.4	22.9	21.4	21.2	20.5
			02M07		21.5	22.8	23.3	23.9	22.5	21.3	21.8	21.7
			02M08		22.9	22.8	23.3	23.9	22.5	21.3	21.8	21.7
			02M09		22.8	25.1	27.4	26.9	26.0	27.6	24.8	23.1
			02M10		24.6	25.1	27.4	26.9	26.0	27.6	24.8	23.1
			Mean		22.2	23.2	24.1	23.8	22.8	22.3	21.8	21.1
	S.D.		1.1	1.5	2.2	2.2	2.3	3.1	2.0	1.6		
	Linalool oxide	250	03M01		21.5	23.2	23.4	22.1	22.2	21.9	21.2	21.0
			03M02		23.0	23.2	23.4	22.1	22.2	21.9	21.2	21.0
			03M03		22.0	23.7	25.6	23.6	22.8	22.0	20.7	21.7
			03M04		24.2	23.7	25.6	23.6	22.8	22.0	20.7	21.7
			03M05		20.5	22.5	24.4	20.2	19.1	19.4	20.6	19.3
			03M06		21.7	22.5	24.4	20.2	19.1	19.4	20.6	19.3
			03M07		22.8	23.5	24.0	24.1	22.8	22.4	22.1	23.5
			03M08		21.8	23.5	24.0	24.1	22.8	22.4	22.1	23.5
			03M09		22.0	22.2	24.5	23.8	22.5	22.2	22.4	21.4
03M10				21.2	22.2	24.5	23.8	22.5	22.2	22.4	21.4	
Mean				22.1	23.0	24.4	22.8	21.9	21.6	21.4	21.4	
S.D.		1.0	0.6	0.8	1.5	1.5	1.2	0.8	1.4			

Appendix 3 Food consumption (g/animal/day) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(week)	Week					
					8	9	10	11	12	13
Male	Control	0	01M01		19.9	22.4	16.3	26.5	19.8	17.8
			01M02		19.9	22.4	16.3	26.5	19.8	17.8
			01M03		19.9	23.1	19.2	22.0	21.2	19.0
			01M04		19.9	23.1	19.2	22.0	21.2	19.0
			01M05		21.3	21.0	17.6	20.6	19.5	19.5
			01M06		21.3	21.0	17.6	20.6	19.5	19.5
			01M07		23.5	24.8	18.9	21.8	23.3	22.2
			01M08		23.5	24.8	18.9	21.8	23.3	22.2
			01M09		21.4	25.0	20.2	22.4	21.2	21.0
			01M10		21.4	25.0	20.2	22.4	21.2	21.0
			Mean		21.2	23.3	18.4	22.7	21.0	19.9
	S.D.		1.4	1.6	1.4	2.1	1.4	1.6		
	Linalool oxide	80	02M01		21.5	21.7	17.4	18.2	20.0	18.7
			02M02		21.5	21.7	17.4	18.2	20.0	18.7
			02M03		17.8	18.2	16.8	18.3	18.4	17.2
			02M04		17.8	18.2	16.8	18.3	18.4	17.2
			02M05		19.1	21.3	18.1	20.6	20.6	19.4
			02M06		19.1	21.3	18.1	20.6	20.6	19.4
			02M07		20.8	23.8	19.2	21.8	21.6	21.2
			02M08		20.8	23.8	19.2	21.8	21.6	21.2
			02M09		23.1	24.1	20.2	21.6	23.5	22.0
			02M10		23.1	24.1	20.2	21.6	23.5	22.0
			Mean		20.5	21.8	18.3	20.1	20.8	19.7
	S.D.		1.9	2.2	1.3	1.6	1.8	1.8		
	Linalool oxide	250	03M01		21.0	22.1	18.9	19.8	19.7	20.7
			03M02		21.0	22.1	18.9	19.8	19.7	20.7
			03M03		20.1	21.1	19.6	19.7	19.6	19.5
			03M04		20.1	21.1	19.6	19.7	19.6	19.5
			03M05		15.9	16.8	16.8	17.3	18.3	18.0
			03M06		15.9	16.8	16.8	17.3	18.3	18.0
			03M07		22.1	21.2	19.1	20.8	21.9	19.6
			03M08		22.1	21.2	19.1	20.8	21.9	19.6
			03M09		19.8	21.4	18.5	20.7	20.3	20.2
03M10				19.8	21.4	18.5	20.7	20.3	20.2	
Mean				19.8	20.5	18.6	19.7	20.0	19.6	
S.D.		2.2	2.0	1.0	1.3	1.2	1.0			

Appendix 3 Food consumption (g/animal/day) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(week)	Week							
					-1	1	2	3	4	5	6	7
Male	Linalool oxide	800	04M01		23.0	25.4	25.6	25.1	24.4	23.9	23.7	21.9
			04M02		22.6	25.4	25.6	25.1	24.4	23.9	23.7	21.9
			04M03		22.1	23.7	25.8	24.6	24.2	24.8	23.0	23.0
			04M04		22.2	23.7	25.8	24.6	24.2	24.8	23.0	23.0
			04M05		22.1	22.5	23.3	20.9	20.5	19.9	19.8	19.5
			04M06		22.6	22.5	23.3	20.9	20.5	19.9	19.8	19.5
			04M07		22.2	24.1	25.4	24.7	24.1	21.9	22.3	20.7
			04M08		22.8	24.1	25.4	24.7	24.1	21.9	22.3	20.7
			04M09		21.4	24.7	26.0	24.2	23.5	22.8	23.4	21.6
			04M10		20.5	24.7	26.0	24.2	23.5	22.8	23.4	21.6
						Mean	22.2	24.1	25.2	23.9	23.3	22.7
			S.D.	0.7	1.0	1.0	1.6	1.5	1.8	1.5	1.2	

Appendix 3 Food consumption (g/animal/day) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(week)	Week					
					8	9	10	11	12	13
Male	Linalool oxide	800	04M01		21.3	22.3	19.6	18.6	20.5	20.0
			04M02		21.3	22.3	19.6	18.6	20.5	20.0
			04M03		22.0	23.3	19.6	21.5	21.6	21.1
			04M04		22.0	23.3	19.6	21.5	21.6	21.1
			04M05		18.1	19.3	16.8	19.3	19.2	17.5
			04M06		18.1	19.3	16.8	19.3	19.2	17.5
			04M07		21.0	22.2	18.3	20.4	20.4	20.8
			04M08		21.0	22.2	18.3	20.4	20.4	20.8
			04M09		19.5	20.8	20.2	20.2	19.9	20.5
			04M10		19.5	20.8	20.2	20.2	19.9	20.5
			Mean		20.4	21.6	18.9	20.0	20.3	20.0
S.D.		1.5	1.5	1.3	1.0	0.8	1.4			

Appendix 3 Food consumption (g/animal/day) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(week)	Week							
					-1	1	2	3	4	5	6	7
Female	Control	0	01F01		19.0	16.6	17.1	17.7	15.4	18.5	14.9	15.0
			01F02		15.7	16.6	17.1	17.7	15.4	18.5	14.9	15.0
			01F03		15.7	13.9	15.4	18.5	15.3	14.7	15.9	16.1
			01F04		19.0	13.9	15.4	18.5	15.3	14.7	15.9	16.1
			01F05		16.8	13.7	15.1	14.9	16.3	14.7	14.6	15.8
			01F06		16.4	13.7	15.1	14.9	16.3	14.7	14.6	15.8
			01F07		16.7	14.4	14.7	14.7	15.1	15.3	15.0	14.7
			01F08		19.0	14.4	14.7	14.7	15.1	15.3	15.0	14.7
			01F09		15.1	14.0	15.1	16.9	15.1	18.1	16.4	16.3
			01F10		16.0	14.0	15.1	16.9	15.1	18.1	16.4	16.3
			Mean		16.9	14.5	15.5	16.5	15.4	16.3	15.4	15.6
			S.D.		1.5	1.1	0.9	1.6	0.5	1.8	0.7	0.7
			Linalool oxide	80	02F01		16.6	13.4	16.1	15.6	14.6	14.5
02F02		16.9			13.4	16.1	15.6	14.6	14.5	14.4	15.0	
02F03		16.2			15.4	15.6	15.9	19.3	16.7	17.9	17.2	
02F04		16.6			15.4	15.6	15.9	19.3	16.7	17.9	17.2	
02F05		16.3			17.0	14.8	16.3	16.8	15.3	14.4	15.5	
02F06		17.1			17.0	14.8	16.3	16.8	15.3	14.4	15.5	
02F07		16.9			16.7	16.6	15.3	15.6	17.2	16.0	15.4	
02F08		17.9			16.7	16.6	15.3	15.6	17.2	16.0	15.4	
02F09		15.9			15.0	16.5	13.8	15.7	16.6	16.0	12.9	
02F10		16.0			15.0	16.5	13.8	15.7	16.6	16.0	12.9	
Mean		16.6			15.5	15.9	15.4	16.4	16.1	15.7	15.2	
S.D.		0.6			1.4	0.7	0.9	1.7	1.1	1.4	1.4	
Linalool oxide	250	03F01				16.0	15.2	14.4	13.5	14.2	15.3	12.8
		03F02		16.9	15.2	14.4	13.5	14.2	15.3	12.8	13.2	
		03F03		15.1	15.3	15.4	14.0	12.6	14.7	14.7	14.2	
		03F04		16.8	15.3	15.4	14.0	12.6	14.7	14.7	14.2	
		03F05		17.6	15.5	14.0	12.9	12.5	14.0	14.1	12.7	
		03F06		18.7	15.5	14.0	12.9	12.5	14.0	14.1	12.7	
		03F07		17.9	14.3	14.0	15.6	15.4	13.4	13.2	13.2	
		03F08		16.8	14.3	14.0	15.6	15.4	13.4	13.2	13.2	
		03F09		16.9	16.4	18.5	16.5	17.8	16.2	15.3	17.0	
		03F10		16.7	16.4	18.5	16.5	17.8	16.2	15.3	17.0	
		Mean		16.9	15.3	15.3	14.5	14.5	14.7	14.0	14.1	
		S.D.		1.0	0.7	1.8	1.4	2.1	1.0	1.0	1.6	

Appendix 3 Food consumption (g/animal/day) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(week)	Week					
					8	9	10	11	12	13
Female	Control	0	01F01		15.2	14.0	11.7	14.8	12.2	14.8
			01F02		15.2	14.0	11.7	14.8	12.2	14.8
			01F03		13.7	14.7	13.0	10.6	13.8	13.2
			01F04		13.7	14.7	13.0	10.6	13.8	13.2
			01F05		12.0	13.8	11.8	11.1	14.4	12.6
			01F06		12.0	13.8	11.8	11.1	14.4	12.6
			01F07		13.2	14.3	12.7	11.8	12.4	10.7
			01F08		13.2	14.3	12.7	11.8	12.4	10.7
			01F09		14.2	14.0	13.7	14.1	13.4	13.4
			01F10		14.2	14.0	13.7	14.1	13.4	13.4
			Mean		13.7	14.2	12.6	12.5	13.2	12.9
	S.D.		1.1	0.3	0.8	1.8	0.9	1.4		
	Linalool oxide	80	02F01		12.4	12.6	12.4	10.3	11.2	ND
			02F02		12.4	12.6	12.4	10.3	11.2	ND
			02F03		16.8	15.8	13.4	13.9	12.7	11.4
			02F04		16.8	15.8	13.4	13.9	12.7	11.4
			02F05		15.2	13.5	11.2	12.7	13.8	13.9
			02F06		15.2	13.5	11.2	12.7	13.8	13.9
			02F07		15.8	15.6	12.7	11.4	14.5	16.2
02F08				15.8	15.6	12.7	11.4	14.5	16.2	
02F09				13.0	12.5	11.0	9.9	11.4	14.2	
02F10				13.0	12.5	11.0	9.9	11.4	14.2	
Mean				14.6	14.0	12.1	11.6	12.7	13.9	
S.D.		1.8	1.5	1.0	1.6	1.4	1.8			
Linalool oxide	250	03F01		14.6	14.3	11.8	12.9	13.2	12.0	
		03F02		14.6	14.3	11.8	12.9	13.2	12.0	
		03F03		11.3	12.9	12.2	12.2	12.0	11.7	
		03F04		11.3	12.9	12.2	12.2	12.0	11.7	
		03F05		11.5	13.8	12.0	10.8	12.6	11.7	
		03F06		11.5	13.8	12.0	10.8	12.6	11.7	
		03F07		11.6	11.4	10.5	9.8	13.5	14.2	
		03F08		11.6	11.4	10.5	9.8	13.5	14.2	
		03F09		13.9	15.1	14.3	13.2	15.2	16.0	
		03F10		13.9	15.1	14.3	13.2	15.2	16.0	
		Mean		12.6	13.5	12.2	11.8	13.3	13.1	
S.D.		1.5	1.3	1.3	1.4	1.1	1.8			

ND : NOT DONE

Appendix 3 Food consumption (g/animal/day) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(week)	Week							
					-1	1	2	3	4	5	6	7
Female	Linalool oxide	800	04F01		17.7	15.1	15.0	15.1	15.7	14.7	14.1	13.7
			04F02		16.2	15.1	15.0	15.1	15.7	14.7	14.1	13.7
			04F03		16.0	13.1	14.6	16.5	14.7	14.6	14.2	15.4
			04F04		16.3	13.1	14.6	16.5	14.7	14.6	14.2	15.4
			04F05		19.0	15.1	15.2	15.2	18.1	16.3	14.6	15.0
			04F06		16.4	15.1	15.2	15.2	18.1	16.3	14.6	15.0
			04F07		15.9	15.5	13.9	15.1	15.8	13.8	12.5	13.2
			04F08		15.6	15.5	13.9	15.1	15.8	13.8	12.5	13.2
			04F09		15.6	17.7	16.3	17.2	17.1	19.5	16.4	15.7
			04F10		15.7	17.7	16.3	17.2	17.1	19.5	16.4	15.7
			Mean				16.4	15.3	15.0	15.8	16.3	15.8
S.D.				1.1	1.5	0.8	0.9	1.3	2.1	1.3	1.0	

Appendix 3 Food consumption (g/animal/day) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(week)	Week					
					8	9	10	11	12	13
Female	Linalool oxide	800	04F01		12.8	13.7	11.2	13.8	13.1	11.8
			04F02		12.8	13.7	11.2	13.8	13.1	11.8
			04F03		12.9	12.6	11.2	14.3	12.4	13.3
			04F04		12.9	12.6	11.2	14.3	12.4	13.3
			04F05		14.3	14.8	12.6	13.6	13.7	14.1
			04F06		14.3	14.8	12.6	13.6	13.7	14.1
			04F07		13.2	12.6	10.2	13.0	11.0	12.6
			04F08		13.2	12.6	10.2	13.0	11.0	12.6
			04F09		14.1	15.3	13.4	14.4	13.1	14.8
			04F10		14.1	15.3	13.4	14.4	13.1	14.8
			Mean		13.5	13.8	11.7	13.8	12.7	13.3
S.D.		0.7	1.2	1.2	0.5	1.0	1.1			

Appendix 4 Water consumption (g/animal/day) - Individual values

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(week)	Week							
					-1	1	2	3	4	5	6	7
Male	Control	0	01M01		30.7	29.5	29.3	30.2	30.2	31.2	32.0	31.6
			01M02		26.6	29.5	29.3	30.2	30.2	31.2	32.0	31.6
			01M03		28.1	30.1	32.1	33.7	35.5	35.7	34.9	34.2
			01M04		31.9	30.1	32.1	33.7	35.5	35.7	34.9	34.2
			01M05		34.9	33.9	39.8	43.0	40.7	41.7	45.6	46.6
			01M06		30.5	33.9	39.8	43.0	40.7	41.7	45.6	46.6
			01M07		30.1	32.6	36.0	41.0	40.5	40.1	48.1	44.6
			01M08		29.9	32.6	36.0	41.0	40.5	40.1	48.1	44.6
			01M09		30.6	34.5	35.6	37.7	35.4	37.0	40.2	38.7
			01M10		28.1	34.5	35.6	37.7	35.4	37.0	40.2	38.7
			Mean		30.1	32.1	34.6	37.1	36.5	37.1	40.2	39.1
	S.D.		2.3	2.1	3.8	4.9	4.1	3.9	6.4	6.1		
	Linalool oxide	80	02M01		30.5	31.3	32.7	33.6	38.8	37.9	37.5	38.3
			02M02		31.0	31.3	32.7	33.6	38.8	37.9	37.5	38.3
			02M03		30.5	35.6	38.3	41.0	41.0	44.2	41.3	37.3
			02M04		30.7	35.6	38.3	41.0	41.0	44.2	41.3	37.3
			02M05		31.9	34.9	37.3	40.8	41.1	40.0	41.8	40.7
			02M06		30.7	34.9	37.3	40.8	41.1	40.0	41.8	40.7
			02M07		30.9	33.0	31.8	35.0	33.5	38.1	38.3	36.9
			02M08		31.7	33.0	31.8	35.0	33.5	38.1	38.3	36.9
			02M09		35.6	31.6	37.1	35.0	38.5	44.5	41.7	39.2
			02M10		31.3	31.6	37.1	35.0	38.5	44.5	41.7	39.2
			Mean		31.5	33.3	35.4	37.1	38.6	40.9	40.1	38.5
	S.D.		1.5	1.8	2.8	3.3	2.9	3.0	1.9	1.4		
	Linalool oxide	250	03M01		30.9	40.6	42.0	42.6	46.7	44.4	47.4	43.8
			03M02		39.2	40.6	42.0	42.6	46.7	44.4	47.4	43.8
			03M03		30.0	33.4	35.8	37.2	36.8	40.5	36.4	39.1
			03M04		33.6	33.4	35.8	37.2	36.8	40.5	36.4	39.1
			03M05		30.7	31.2	35.7	33.5	35.0	35.5	34.7	32.2
			03M06		30.5	31.2	35.7	33.5	35.0	35.5	34.7	32.2
			03M07		34.9	33.9	36.0	37.4	38.6	38.3	39.1	39.4
			03M08		29.9	33.9	36.0	37.4	38.6	38.3	39.1	39.4
			03M09		30.0	30.0	34.7	39.7	40.3	38.7	39.1	41.6
03M10				28.6	30.0	34.7	39.7	40.3	38.7	39.1	41.6	
Mean				31.8	33.8	36.8	38.1	39.5	39.5	39.3	39.2	
S.D.		3.2	3.9	2.8	3.2	4.2	3.1	4.6	4.1			

Appendix 4 Water consumption (g/animal/day) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(week)	Week					
					8	9	10	11	12	13
Male	Control	0	01M01		31.3	34.5	26.5	31.5	30.8	29.8
			01M02		31.3	34.5	26.5	31.5	30.8	29.8
			01M03		33.4	36.3	29.2	27.3	32.5	30.8
			01M04		33.4	36.3	29.2	27.3	32.5	30.8
			01M05		47.1	48.9	34.9	39.4	46.7	43.9
			01M06		47.1	48.9	34.9	39.4	46.7	43.9
			01M07		48.6	46.8	35.3	37.9	41.2	44.7
			01M08		48.6	46.8	35.3	37.9	41.2	44.7
			01M09		37.0	37.4	30.8	34.7	36.6	35.2
			01M10		37.0	37.4	30.8	34.7	36.6	35.2
			Mean		39.5	40.8	31.3	34.2	37.6	36.9
	S.D.		7.5	6.2	3.5	4.6	6.1	6.7		
	Linalool oxide	80	02M01		38.1	37.8	30.3	27.6	34.8	32.4
			02M02		38.1	37.8	30.3	27.6	34.8	32.4
			02M03		40.0	39.5	28.8	31.9	33.1	34.4
			02M04		40.0	39.5	28.8	31.9	33.1	34.4
			02M05		37.1	40.0	36.3	35.4	40.3	34.2
			02M06		37.1	40.0	36.3	35.4	40.3	34.2
			02M07		34.8	38.2	29.7	34.7	35.0	38.4
			02M08		34.8	38.2	29.7	34.7	35.0	38.4
			02M09		41.8	41.5	32.0	31.5	38.0	ND
02M10				41.8	41.5	32.0	31.5	38.0	ND	
Mean				38.4	39.4	31.4	32.2	36.2	34.9	
S.D.		2.5	1.4	2.8	2.9	2.7	2.3			
Linalool oxide	250	03M01		49.2	49.5	34.4	39.6	40.3	44.1	
		03M02		49.2	49.5	34.4	39.6	40.3	44.1	
		03M03		38.5	39.4	31.7	29.6	38.3	37.4	
		03M04		38.5	39.4	31.7	29.6	38.3	37.4	
		03M05		33.6	31.2	25.4	29.0	30.9	28.3	
		03M06		33.6	31.2	25.4	29.0	30.9	28.3	
		03M07		38.1	40.0	30.3	30.9	37.9	37.2	
		03M08		38.1	40.0	30.3	30.9	37.9	37.2	
		03M09		39.1	41.4	25.5	35.9	38.7	40.8	
		03M10		39.1	41.4	25.5	35.9	38.7	40.8	
		Mean		39.7	40.3	29.5	33.0	37.2	37.6	
S.D.		5.4	6.1	3.7	4.3	3.4	5.6			

ND : NOT DONE

Appendix 4 Water consumption (g/animal/day) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(week)	Week -1	1	2	3	4	5	6	7
Male	Linalool oxide	800	04M01		39.2	41.4	47.6	48.0	50.8	51.3	53.2	51.2
			04M02		30.0	41.4	47.6	48.0	50.8	51.3	53.2	51.2
			04M03		30.0	35.6	40.8	41.1	40.9	43.3	40.8	41.4
			04M04		29.8	35.6	40.8	41.1	40.9	43.3	40.8	41.4
			04M05		30.0	31.4	35.1	32.3	33.0	35.8	36.7	34.5
			04M06		30.0	31.4	35.1	32.3	33.0	35.8	36.7	34.5
			04M07		29.8	34.9	39.5	39.1	39.7	41.3	42.6	41.0
			04M08		35.6	34.9	39.5	39.1	39.7	41.3	42.6	41.0
			04M09		31.0	35.6	43.3	43.9	44.4	42.1	46.9	43.3
			04M10		30.1	35.6	43.3	43.9	44.4	42.1	46.9	43.3
			Mean				31.6	35.8	41.3	40.9	41.8	42.8
S.D.				3.2	3.4	4.4	5.5	6.2	5.3	5.9	5.6	

Appendix 4 Water consumption (g/animal/day) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(week)	Week 8	9	10	11	12	13
Male	Linalool oxide	800	04M01		51.3	53.2	35.7	38.9	44.8	41.5
			04M02		51.3	53.2	35.7	38.9	44.8	41.5
			04M03		41.9	38.8	34.4	38.7	37.1	34.3
			04M04		41.9	38.8	34.4	38.7	37.1	34.3
			04M05		34.3	32.9	28.1	30.5	30.0	28.9
			04M06		34.3	32.9	28.1	30.5	30.0	28.9
			04M07		45.0	41.3	33.0	37.2	40.7	39.7
			04M08		45.0	41.3	33.0	37.2	40.7	39.7
			04M09		40.0	42.8	35.1	34.9	35.8	37.7
			04M10		40.0	42.8	35.1	34.9	35.8	37.7
						Mean		42.5	41.8	33.3
			S.D.		5.9	7.0	2.9	3.3	5.2	4.7

Appendix 4 Water consumption (g/animal/day) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(week)	Week									
					-1	1	2	3	4	5	6	7		
Female	Control	0	01F01		30.0	30.2	32.2	35.3	33.9	42.1	36.9	33.3		
			01F02		24.5	30.2	32.2	35.3	33.9	42.1	36.9	33.3		
			01F03		26.0	24.8	23.4	31.6	28.3	29.3	30.6	30.2		
			01F04		27.8	24.8	23.4	31.6	28.3	29.3	30.6	30.2		
			01F05		25.5	22.7	23.9	21.9	25.6	25.6	25.9	27.4		
			01F06		26.2	22.7	23.9	21.9	25.6	25.6	25.9	27.4		
			01F07		25.6	21.3	21.1	21.5	22.2	23.2	23.8	23.8		
			01F08		27.8	21.3	21.1	21.5	22.2	23.2	23.8	23.8		
			01F09		20.5	21.3	25.7	27.7	26.2	28.8	29.1	29.0		
			01F10		26.1	21.3	25.7	27.7	26.2	28.8	29.1	29.0		
			Mean		26.0	24.1	25.3	27.6	27.2	29.8	29.3	28.7		
			S.D.		2.5	3.5	4.0	5.7	4.1	6.9	4.7	3.3		
			Linalool oxide	80	02F01		26.0	23.6	30.9	30.1	29.3	27.2	28.4	28.6
					02F02		26.7	23.6	30.9	30.1	29.3	27.2	28.4	28.6
02F03		23.9			21.4	23.6	23.9	28.5	25.7	26.9	26.6			
02F04		26.0			21.4	23.6	23.9	28.5	25.7	26.9	26.6			
02F05		23.2			26.2	23.6	27.6	28.5	28.0	26.4	27.7			
02F06		25.6			26.2	23.6	27.6	28.5	28.0	26.4	27.7			
02F07		24.0			30.5	29.7	27.0	29.0	31.9	31.5	26.3			
02F08		27.3			30.5	29.7	27.0	29.0	31.9	31.5	26.3			
02F09		23.3			20.9	25.0	18.9	22.8	24.6	26.5	20.5			
02F10		22.5			20.9	25.0	18.9	22.8	24.6	26.5	20.5			
Mean		24.9			24.5	26.6	25.5	27.6	27.5	27.9	25.9			
S.D.		1.7			3.7	3.3	4.1	2.6	2.6	2.0	3.0			
Linalool oxide	250	03F01				26.1	25.3	23.4	22.3	24.2	28.7	25.8	23.9	
		03F02				26.7	25.3	23.4	22.3	24.2	28.7	25.8	23.9	
		03F03		20.5	22.3	23.9	21.2	20.1	21.9	21.2	22.4			
		03F04		25.2	22.3	23.9	21.2	20.1	21.9	21.2	22.4			
		03F05		24.3	23.4	22.1	19.1	18.7	20.4	22.5	20.1			
		03F06		28.1	23.4	22.1	19.1	18.7	20.4	22.5	20.1			
		03F07		27.3	21.7	21.2	25.1	24.3	21.0	22.5	24.1			
		03F08		25.5	21.7	21.2	25.1	24.3	21.0	22.5	24.1			
		03F09		24.0	21.5	25.0	24.2	24.6	22.9	20.0	25.5			
		03F10		25.6	21.5	25.0	24.2	24.6	22.9	20.0	25.5			
		Mean		25.3	22.8	23.1	22.4	22.4	23.0	22.4	23.2			
		S.D.		2.1	1.5	1.4	2.3	2.6	3.1	2.0	1.9			

Appendix 4 Water consumption (g/animal/day) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(week)	Week							
					8	9	10	11	12	13		
Female	Control	0	01F01		38.4	35.8	30.4	35.1	31.1	36.8		
			01F02		38.4	35.8	30.4	35.1	31.1	36.8		
			01F03		29.7	27.5	24.4	21.4	26.1	24.2		
			01F04		29.7	27.5	24.4	21.4	26.1	24.2		
			01F05		23.2	26.4	20.2	21.5	26.4	24.0		
			01F06		23.2	26.4	20.2	21.5	26.4	24.0		
			01F07		22.2	22.4	18.0	17.9	22.3	19.5		
			01F08		22.2	22.4	18.0	17.9	22.3	19.5		
			01F09		27.7	23.7	23.6	24.5	22.4	23.4		
			01F10		27.7	23.7	23.6	24.5	22.4	23.4		
			Mean		28.2	27.2	23.3	24.1	25.7	25.6		
			S.D.		6.1	4.9	4.5	6.2	3.4	6.2		
			Linalool oxide	80	02F01		25.0	23.6	22.1	20.9	22.0	24.3
					02F02		25.0	23.6	22.1	20.9	22.0	24.3
					02F03		27.4	28.5	19.6	22.1	22.0	20.3
02F04		27.4			28.5	19.6	22.1	22.0	20.3			
02F05		29.9			26.8	20.5	21.4	25.8	26.0			
02F06		29.9			26.8	20.5	21.4	25.8	26.0			
02F07		30.7			27.5	24.0	25.3	27.2	28.7			
02F08		30.7			27.5	24.0	25.3	27.2	28.7			
02F09		22.8			22.4	18.7	17.4	18.5	23.2			
02F10		22.8			22.4	18.7	17.4	18.5	23.2			
Mean		27.2			25.8	21.0	21.4	23.1	24.5			
S.D.		3.1			2.5	2.0	2.7	3.3	3.0			
Linalool oxide	250	03F01				28.5	29.9	20.2	23.4	27.6	25.1	
		03F02				28.5	29.9	20.2	23.4	27.6	25.1	
		03F03				18.5	18.3	17.5	19.1	16.9	18.5	
		03F04		18.5	18.3	17.5	19.1	16.9	18.5			
		03F05		18.2	22.1	18.3	16.1	18.5	18.8			
		03F06		18.2	22.1	18.3	16.1	18.5	18.8			
		03F07		23.2	21.5	20.4	18.2	23.8	23.8			
		03F08		23.2	21.5	20.4	18.2	23.8	23.8			
		03F09		22.3	23.5	20.9	21.6	21.7	24.6			
		03F10		22.3	23.5	20.9	21.6	21.7	24.6			
		Mean		22.1	23.1	19.5	19.7	21.7	22.2			
		S.D.		4.0	4.0	1.4	2.7	4.0	3.1			

Appendix 4 Water consumption (g/animal/day) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(week)	Week -1	1	2	3	4	5	6	7
Female	Linalool oxide	800	04F01		27.2	26.2	25.5	25.2	27.5	27.6	28.3	25.6
			04F02		23.9	26.2	25.5	25.2	27.5	27.6	28.3	25.6
			04F03		22.5	21.7	24.6	27.4	26.9	22.9	26.2	27.7
			04F04		23.2	21.7	24.6	27.4	26.9	22.9	26.2	27.7
			04F05		30.0	26.8	24.9	24.2	25.0	27.7	24.7	25.4
			04F06		26.2	26.8	24.9	24.2	25.0	27.7	24.7	25.4
			04F07		23.3	28.7	26.7	25.7	29.6	28.5	25.1	28.5
			04F08		28.1	28.7	26.7	25.7	29.6	28.5	25.1	28.5
			04F09		28.1	31.9	38.1	35.8	47.0	52.9	52.7	48.0
			04F10		26.0	31.9	38.1	35.8	47.0	52.9	52.7	48.0
						Mean		25.9	27.1	28.0	27.7	31.2
			S.D.		2.5	3.5	5.4	4.4	8.5	11.3	11.3	9.0

Appendix 4 Water consumption (g/animal/day) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(week)	Week					
					8	9	10	11	12	13
Female	Linalool oxide	800	04F01		27.9	30.1	22.3	24.9	29.3	27.1
			04F02		27.9	30.1	22.3	24.9	29.3	27.1
			04F03		25.8	25.9	22.6	25.0	25.0	23.2
			04F04		25.8	25.9	22.6	25.0	25.0	23.2
			04F05		26.2	27.3	23.8	28.1	29.6	28.9
			04F06		26.2	27.3	23.8	28.1	29.6	28.9
			04F07		30.9	27.0	21.4	31.4	27.2	28.3
			04F08		30.9	27.0	21.4	31.4	27.2	28.3
			04F09		43.6	45.8	37.9	47.3	42.0	42.4
			04F10		43.6	45.8	37.9	47.3	42.0	42.4
			Mean		30.9	31.2	25.6	31.3	30.6	30.0
S.D.		7.0	7.8	6.5	8.8	6.2	6.9			

Appendix 5 Ophthalmoscopic examination - Individual data

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Observations
Male	Control	0	01M01		Normal
			01M02		Normal
			01M03		Normal
			01M04		Normal
			01M05		Normal
			01M06		Normal
	Linalool oxide	80	02M01		Normal
			02M02		Normal
			02M03		Normal
			02M04		Normal
			02M05		Normal
			02M06		Normal
	Linalool oxide	250	03M01		Normal
			03M02		Normal
			03M03		Normal
			03M04		Normal
			03M05		Normal
			03M06		Normal
	Linalool oxide	800	04M01		Normal
			04M02		Normal
			04M03		Normal
			04M04		Normal
			04M05		Normal
			04M06		Normal



Appendix 5 Ophthalmoscopic examination - Individual data (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Observations
Female	Control	0	01F01		Normal
			01F02		Normal
			01F03		Normal
			01F04		Normal
			01F05		Normal
			01F06		Normal
	Linalool oxide	80	02F01		Normal
			02F02		Normal
			02F03		Normal
			02F04		Normal
			02F05		Normal
			02F06		Normal
	Linalool oxide	250	03F01		Normal
			03F02		Normal
			03F03		Normal
			03F04		Normal
			03F05		Normal
			03F06		Normal
	Linalool oxide	800	04F01		Normal
			04F02		Normal
			04F03		Normal
			04F04		Normal
			04F05		Normal
			04F06		Normal



Appendix 6 Urinalysis - Individual data

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Glucose	Bilirubin	Ketones	Occult blood	pH	Protein	Urobilinogen	Color
Male	Control	0	01M01		-	-	±	-	7.0	1+	0.1	Light yellow
			01M02		-	-	1+	-	8.5	1+	0.1	Light yellow
			01M03		-	-	±	-	7.5	-	0.1	Light yellow
			01M04		-	-	-	-	8.0	±	0.1	Light yellow
			01M05		-	-	±	-	7.5	-	0.1	Light yellow
			01M06		-	-	±	-	7.5	1+	0.1	Light yellow
	Linalool oxide	80	02M01		-	-	-	-	8.0	1+	0.1	Light yellow
			02M02		-	-	±	-	8.5	1+	0.1	Light yellow
			02M03		-	-	±	-	8.5	±	0.1	Light yellow
			02M04		-	-	±	-	7.5	1+	0.1	Light yellow
			02M05		-	-	±	-	8.0	1+	0.1	Light yellow
			02M06		-	-	-	-	8.5	1+	0.1	Light yellow
	Linalool oxide	250	03M01		-	-	±	-	7.0	-	0.1	Light yellow
			03M02		-	-	1+	-	8.5	1+	0.1	Light yellow
			03M03		-	-	1+	-	7.5	1+	0.1	Light yellow
			03M04		-	-	±	-	8.5	±	0.1	Light yellow
			03M05		-	-	1+	-	6.5	1+	0.1	Light yellow
			03M06		-	-	±	-	7.0	±	0.1	Light yellow
	Linalool oxide	800	04M01		-	-	-	-	7.5	-	0.1	Pale yellow
			04M02		-	-	±	-	7.5	±	0.1	Light yellow
			04M03		-	-	±	-	6.5	±	0.1	Light yellow
			04M04		-	-	±	-	7.0	1+	0.1	Light yellow
			04M05		-	-	±	-	6.5	1+	0.1	Light yellow
			04M06		-	-	-	-	7.5	±	0.1	Light yellow

Appendix 6 Urinalysis - Individual data (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Sediments				
					Epithelial cells	Crystals	Casts	Erythrocytes	Leukocytes
Male	Control	0	01M01		-	3+	-	-	-
			01M02		-	±	-	-	-
			01M03		-	-	-	-	-
			01M04		±	-	-	-	-
			01M05		-	3+	-	-	-
			01M06		±	1+	-	-	-
	Linalool oxide	80	02M01		-	±	-	-	-
			02M02		-	3+	-	-	-
			02M03		-	3+	-	-	-
			02M04		-	3+	-	-	-
			02M05		-	-	-	-	-
			02M06		-	-	-	-	-
	Linalool oxide	250	03M01		-	1+	-	-	-
			03M02		-	3+	-	-	-
			03M03		-	-	-	-	-
			03M04		-	1+	-	-	-
			03M05		-	1+	-	-	-
			03M06		±	1+	-	-	-
	Linalool oxide	800	04M01		-	±	-	-	-
			04M02		-	2+	-	-	-
			04M03		-	-	-	-	-
			04M04		-	3+	-	-	-
			04M05		-	3+	-	-	-
			04M06		-	3+	-	-	-



Appendix 6 Urinalysis - Individual data (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Specific gravity	Urine volume (in grams)	Na (mEq/L)	K (mEq/L)	Cl (mEq/L)
Male	Control	0	01M01		1.054	11.9	51.3	266.88	73.5
			01M02		1.063	11.0	101.1	281.22	111.9
			01M03		1.084	6.2	233.7	406.50 a	228.3
			01M04		1.036	20.9	82.8	177.51	90.6
			01M05		1.038	15.3	63.0	161.16	83.4
			01M06		1.069	8.9	174.9	347.76 a	198.6
			Mean		1.057	12.4	117.8	273.51	131.1
	S.D.		0.019	5.2	71.6	95.02	65.7		
	Linalool oxide	80	02M01		1.051	14.3	81.6	263.52	109.8
			02M02		1.060	9.4	92.7	243.42	106.8
			02M03		1.045	14.4	76.8	164.31	80.7
			02M04		1.063	12.4	96.3	296.52	115.8
			02M05		1.066	10.1	102.9	320.64 a	141.6
			02M06		1.062	10.7	43.8	280.50	90.0
			Mean		1.058	11.9	82.4	261.49	107.5
	S.D.		0.008	2.2	21.2	54.52	21.3		
	Linalool oxide	250	03M01		1.038	12.7	17.1 a	86.28	31.2
			03M02		1.049	11.5	34.2	156.21	43.5
			03M03		1.043	12.1	13.4 a	112.86	37.5
			03M04		1.030	23.7	48.0	104.43	48.9
			03M05		1.078	5.6	36.0	209.76	51.9
			03M06		1.042	13.9	30.0	122.88	44.7
			Mean		1.047	13.3	29.8	132.07	43.0
	S.D.		0.017	5.9	12.8	44.57	7.6		
Linalool oxide	800	04M01		1.015	35.2	11.6 a	24.78	11.4 a	
		04M02		1.065	12.1	50.4	143.67	52.8	
		04M03		1.080	11.3	96.6	142.11	78.9	
		04M04		1.045	14.3	41.1	83.94	50.4	
		04M05		1.072	10.3	68.4	137.91	57.6	
		04M06		1.050	10.8	48.6	102.90	55.5	
		Mean		1.055	15.7	52.8	105.89	51.1	
S.D.		0.023	9.7	28.4	46.55	22.0			

a : Reanalysis was performed.



Appendix 6 Urinalysis - Individual data (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Glucose	Bilirubin	Ketones	Occult blood	pH	Protein	Urobilinogen	Color
Female	Control	0	01F01		-	-	-	-	8.0	1+	0.1	Pale yellow
			01F02		-	-	-	-	8.0	-	0.1	Pale yellow
			01F03		-	-	-	-	8.5	-	0.1	Light yellow
			01F04		-	-	-	-	7.5	-	0.1	Light yellow
			01F05		-	-	-	-	7.5	±	0.1	Light yellow
			01F06		-	-	-	-	8.5	-	0.1	Light yellow
	Linalool oxide	80	02F01		-	-	-	-	6.0	1+	0.1	Light yellow
			02F02		-	-	-	-	8.5	1+	0.1	Light yellow
			02F03		-	-	-	-	7.5	±	0.1	Light yellow
			02F04		-	-	-	-	8.0	1+	0.1	Light yellow
			02F05		-	-	-	-	8.0	1+	0.1	Light yellow
			02F06		-	-	-	-	7.0	1+	0.1	Light yellow
	Linalool oxide	250	03F01		-	-	-	-	8.0	1+	0.1	Light yellow
			03F02		-	-	-	-	6.0	1+	0.1	Light yellow
			03F03		-	-	-	-	6.0	1+	0.1	Light yellow
			03F04		-	-	-	-	7.5	-	0.1	Light yellow
			03F05		-	-	-	-	6.0	1+	0.1	Light yellow
			03F06		-	-	-	-	6.0	1+	0.1	Light yellow
	Linalool oxide	800	04F01		-	-	-	-	7.0	±	0.1	Light yellow
			04F02		-	-	-	-	8.0	-	0.1	Light yellow
			04F03		-	-	-	-	6.5	±	0.1	Pale yellow
			04F04		-	-	-	-	7.5	1+	0.1	Light yellow
			04F05		-	-	-	-	6.5	±	0.1	Light yellow
			04F06		-	-	-	-	6.0	±	0.1	Pale yellow

Appendix 6 Urinalysis - Individual data (Continued)



Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Sediments				
					Epithelial cells	Crystals	Casts	Erythro- cytes	Leuko- cytes
Female	Control	0	01F01		-	1+	-	-	-
			01F02		-	-	-	-	-
			01F03		-	±	-	-	-
			01F04		±	±	-	-	-
			01F05		-	-	-	-	-
			01F06		-	±	-	-	-
	Linalool oxide	80	02F01		-	-	-	-	-
			02F02		-	1+	-	-	-
			02F03		-	±	-	-	-
			02F04		-	1+	-	-	-
			02F05		-	1+	-	-	-
			02F06		-	-	-	-	-
	Linalool oxide	250	03F01		-	2+	-	-	-
			03F02		-	±	-	-	-
			03F03		-	-	-	-	-
			03F04		-	-	-	-	-
			03F05		-	-	-	-	-
			03F06		-	-	-	-	-
	Linalool oxide	800	04F01		-	3+	-	-	-
			04F02		-	-	-	-	-
			04F03		-	-	-	-	-
			04F04		-	2+	-	-	-
			04F05		-	-	-	-	-
			04F06		-	2+	-	-	-

Appendix 6 Urinalysis - Individual data (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Specific gravity	Urine volume (in grams)	Na (mEq/L)	K (mEq/L)	Cl (mEq/L)
Female	Control	0	01F01		1.032	14.1	38.4	148.53	51.3
			01F02		1.021	31.9	38.1	100.50	46.5
			01F03		1.040	13.8	63.0	211.47	79.8
			01F04		1.078	6.7	153.9	394.08 a	181.8
			01F05		1.044	12.5	106.5	223.44	96.3
			01F06		1.061	8.0	84.6	324.00 a	109.5
			Mean		1.046	14.5	80.8	233.67	94.2
	S.D.		0.021	9.1	44.6	109.06	49.5		
	Linalool oxide	80	02F01		1.057	7.2	80.7	304.92 a	116.1
			02F02		1.030	19.6	67.8	152.31	68.7
			02F03		1.062	7.7	122.7	306.72 a	117.0
			02F04		1.087	3.7	158.4	488.94 a	254.4
			02F05		1.075	5.7	86.4	328.98 a	103.8
			02F06		1.046	12.4	110.1	243.51	103.2
			Mean		1.060	9.4	104.4	304.23	127.2
	S.D.		0.020	5.8	33.2	110.91	64.7		
	Linalool oxide	250	03F01		1.044	7.2	33.3	96.36	47.1
			03F02		1.086	3.9	67.8	233.04	74.4
			03F03		1.090	3.3	111.0	366.06 a	122.4
			03F04		1.064	5.5	68.1	196.95	72.3
			03F05		1.079	7.1	146.4	224.46 a	163.8
			03F06		1.068	4.8	172.2	239.61	100.5
			Mean		1.072	5.3	99.8	226.08	96.8
	S.D.		0.017	1.6	52.9	86.61	41.8		
Linalool oxide	800	04F01		1.062	7.3	118.5	151.38	85.8	
		04F02		1.050	9.6	47.7	85.77	36.9	
		04F03		1.045	16.6	84.0	170.52	74.7	
		04F04		1.078	6.5	44.4	115.77	30.9	
		04F05		1.041	14.7	66.3	117.57	60.0	
		04F06		1.047	15.0	85.2	180.39	85.8	
		Mean		1.054	11.6	74.4	136.90	62.4	
S.D.		0.014	4.4	27.7	36.51	24.1			

a : Reanalysis was performed.



Appendix 7 Hematology - Individual values

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	RBC	HCT	HGB	MCH	MCHC	MCV	PLT	WBC
					(x10 ⁴ /μL)	(%)	(g/dL)	(pg)	(g/dL)	(fL)	(x10 ⁴ /μL)	(x10 ² /μL)
Male	Control	0	01M01		840	43.9	15.9	18.9	36.2	52.3	92.9	95.4
			01M02		840	39.4	14.3	17.0	36.3	46.9	101.6	55.2
			01M03		804	39.7	14.3	17.8	36.0	49.4	101.5	78.1
			01M04		924	44.1	16.2	17.5	36.7	47.7	105.8	176.9
			01M05		892	44.2	16.1	18.0	36.4	49.6	113.7	128.5
			01M06		856	41.1	15.0	17.5	36.5	48.0	109.8	104.2
			01M07		843	41.3	15.0	17.8	36.3	49.0	101.4	88.0
			01M08		842	39.3	14.2	16.9	36.1	46.7	102.3	154.8
			01M09		837	41.8	14.9	17.8	35.6	49.9	106.5	127.1
			01M10		865	42.1	15.4	17.8	36.6	48.7	101.1	116.6
			Mean		854	41.7	15.1	17.7	36.3	48.8	103.7	112.5
	S.D.		33	1.9	0.8	0.6	0.3	1.6	5.7	36.3		
	Linalool oxide	80	02M01		853	40.4	14.9	17.5	36.9	47.4	115.5	149.9
			02M02		851	41.8	15.2	17.9	36.4	49.1	91.2	82.2
			02M03		884	44.1	16.1	18.2	36.5	49.9	96.3	62.6
			02M04		870	40.1	14.6	16.8	36.4	46.1	115.2	148.9
			02M05		919	40.3	14.8	16.1	36.7	43.9	118.6	107.9
			02M06		834	42.6	15.2	18.2	35.7	51.1	98.0	101.4
			02M07		844	40.9	15.1	17.9	36.9	48.5	120.3	147.2
			02M08		898	43.4	15.9	17.7	36.6	48.3	115.4	106.6
			02M09		846	42.6	15.1	17.8	35.4	50.4	104.5	70.9
			02M10		839	39.4	14.6	17.4	37.1	47.0	105.0	119.2
			Mean		864	41.6	15.2	17.6	36.5	48.2	108.0	109.7
	S.D.		28	1.6	0.5	0.7	0.5	2.2	10.4	32.0		
	Linalool oxide	250	03M01		894	42.8	15.6	17.4	36.4	47.9	118.2	90.9
			03M02		833	40.4	14.5	17.4	35.9	48.5	96.0	95.5
			03M03		883	42.4	15.1	17.1	35.6	48.0	105.5	93.0
			03M04		849	38.5	14.2	16.7	36.9	45.3	107.2	82.2
			03M05		985	38.1	14.6	14.8	38.3	38.7	132.4	165.8
			03M06		885	41.2	15.1	17.1	36.7	46.6	125.0	125.0
			03M07		877	41.0	15.0	17.1	36.6	46.8	117.9	123.8
			03M08		907	40.4	15.0	16.5	37.1	44.5	103.9	146.6
			03M09		859	42.3	15.5	18.0	36.6	49.2	116.0	135.6
03M10				831	42.5	15.1	18.2	35.5	51.1	116.3	99.2	
Mean				880	41.0	15.0	17.0	36.6	46.7	113.8	115.8	
S.D.		45	1.7	0.4	0.9	0.8	3.4	10.8	27.8			

Appendix 7 Hematology - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Leukocytes, differential					Reticulo- cytes (x10 ⁴ /μL)	Coagulation test	
					Lympho- cytes (x10 ³ /μL)	Neutro- phils (x10 ³ /μL)	Eosino- phils (x10 ³ /μL)	Baso- phils (x10 ³ /μL)	Mono- cytes (x10 ³ /μL)		PT (sec)	APTT (sec)
Male	Control	0	01M01		80.5	10.7	1.2	0.0	3.0	25.12	10.9	13.0
			01M02		42.2	10.6	0.7	0.0	1.7	24.53	13.7	19.1
			01M03		59.4	15.1	0.8	0.0	2.8	25.89	12.7	16.6
			01M04		147.3	21.8	2.2	0.1	5.5	26.80	13.5	18.8
			01M05		86.2	35.3	2.0	0.1	4.9	28.28	10.6	12.8
			01M06		81.7	18.2	1.0	0.0	3.3	23.11	11.2	17.8
			01M07		59.8	23.2	1.2	0.0	3.8	34.73	11.8	12.5
			01M08		107.3	38.2	1.5	0.0	7.8	34.61	12.1	15.6
			01M09		102.1	19.1	1.3	0.0	4.6	30.47	12.9	15.1
			01M10		81.5	28.5	1.1	0.0	5.5	25.78	15.2	18.5
			Mean		84.8	22.1	1.3	0.0	4.3	27.93	12.5	16.0
	S.D.		29.5	9.5	0.5	0.0	1.7	4.09	1.4	2.6		
	Linalool oxide	80	02M01		127.9	15.7	1.1	0.1	5.1	23.46	12.5	15.0
			02M02		64.6	13.8	0.6	0.0	3.2	30.64	10.7	14.6
			02M03		46.0	14.2	0.9	0.0	1.5	29.35	18.2	21.9
			02M04		108.2	33.1	2.0	0.1	5.5	28.01	10.4	14.2
			02M05		83.3	19.3	1.4	0.1	3.8	25.55	11.2	16.7
			02M06		66.4	29.4	2.2	0.0	3.4	30.94	14.5	17.9
			02M07		114.3	24.0	2.5	0.0	6.4	30.89	16.1	20.0
			02M08		77.1	23.5	1.5	0.0	4.5	34.93	12.0	15.3
			02M09		57.9	8.8	1.0	0.0	3.2	28.26	14.7	20.6
			02M10		95.3	15.8	1.1	0.0	7.0	28.27	11.0	11.2
			Mean		84.1	19.8	1.4	0.0	4.4	29.03	13.1	16.7
	S.D.		26.7	7.6	0.6	0.0	1.7	3.16	2.6	3.3		
	Linalool oxide	250	03M01		70.0	16.9	0.8	0.0	3.2	28.70	12.1	18.9
			03M02		71.6	17.8	2.4	0.1	3.6	26.07	14.1	19.8
			03M03		72.0	16.3	1.7	0.0	3.0	22.69	12.2	18.3
			03M04		60.5	16.5	2.2	0.0	3.0	28.70	16.1	19.6
			03M05		129.6	31.3	2.2	0.0	2.7	28.96	12.0	16.7
			03M06		80.4	38.1	2.1	0.1	4.3	28.41	11.8	15.8
			03M07		99.1	19.5	1.2	0.1	3.9	32.10	9.9	13.2
			03M08		119.1	22.5	1.6	0.1	3.3	30.75	11.7	15.6
			03M09		102.9	25.6	2.1	0.1	4.9	29.89	17.3	15.7
03M10				78.0	15.1	1.7	0.0	4.4	28.59	12.5	17.4	
Mean				88.3	22.0	1.8	0.1	3.6	28.49	13.0	17.1	
S.D.		23.1	7.6	0.5	0.1	0.7	2.58	2.2	2.1			

Appendix 7 Hematology - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	RBC (x10 ⁶ /μL)	HCT (%)	HGB (g/dL)	MCH (pg)	MCHC (g/dL)	MCV (fL)	PLT (x10 ⁹ /μL)	WBC (x10 ³ /μL)
Male	Linalool oxide	800	04M01		885	41.0	14.7	16.6	35.9	46.3	129.5	104.9
			04M02		852	43.1	15.2	17.8	35.3	50.6	131.7	89.6
			04M03		870	40.8	14.8	17.0	36.3	46.9	109.9	108.7
			04M04		755	36.3	13.3	17.6	36.6	48.1	138.8	150.3
			04M05		912	42.9	15.2	16.7	35.4	47.0	117.9	114.1
			04M06		863	41.7	15.0	17.4	36.0	48.3	125.5	118.1
			04M07		886	44.9	15.9	17.9	35.4	50.7	99.1	105.5
			04M08		828	41.3	14.5	17.5	35.1	49.9	109.9	118.1
			04M09		876	42.5	15.0	17.1	35.3	48.5	97.4	74.2
			04M10		855	39.2	14.4	16.8	36.7	45.8	115.6	92.1
			Mean		858	41.4	14.8	17.2	35.8	48.2	117.5	107.6
			S.D.		43	2.4	0.7	0.5	0.6	1.7	13.8	20.5

Appendix 7 Hematology - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Leukocytes, differential					Reticulo- cytes (x10 ⁴ /μL)	Coagulation test	
					Lympho- cytes (x10 ³ /μL)	Neutro- phils (x10 ³ /μL)	Eosino- phils (x10 ³ /μL)	Baso- phils (x10 ³ /μL)	Mono- cytes (x10 ³ /μL)		PT (sec)	APTT (sec)
Male	Linalool oxide	800	04M01		82.2	16.6	1.4	0.1	4.6	33.01	11.0	12.6
			04M02		60.6	24.9	1.4	0.0	2.7	28.37	10.4	15.6
			04M03		82.1	21.0	2.3	0.0	3.3	29.58	11.0	16.0
			04M04		98.5	44.9	2.7	0.1	4.1	25.97	10.5	15.0
			04M05		91.5	17.0	1.1	0.0	4.5	22.62	11.6	16.9
			04M06		91.3	22.7	0.8	0.0	3.3	32.36	11.7	15.2
			04M07		86.4	15.3	1.1	0.0	2.7	24.54	11.4	12.7
			04M08		91.3	20.3	1.6	0.0	4.9	31.38	10.8	15.6
			04M09		57.7	12.2	0.6	0.0	3.7	24.09	10.9	15.1
			04M10		66.6	19.8	0.6	0.1	5.0	29.75	12.1	15.3
						Mean	80.8	21.5	1.4	0.0	3.9	28.17
			S.D.	14.2	9.0	0.7	0.0	0.9	3.67	0.5	1.4	

Appendix 7 Hematology - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	RBC (x10 ⁴ /μL)	HCT (%)	HGB (g/dL)	MCH (pg)	MCHC (g/dL)	MCV (fL)	PLT (x10 ³ /μL)	WBC (x10 ³ /μL)
Female	Control	0	01F01		717	38.7	14.2	19.8	36.7	54.0	96.8	74.0
			01F02		725	38.7	14.1	19.4	36.4	53.4	118.1	69.7
			01F03		738	39.3	14.3	19.4	36.4	53.3	102.9	79.5
			01F04		696	39.3	13.9	20.0	35.4	56.5	102.4	50.5
			01F05		756	38.8	14.2	18.8	36.6	51.3	101.0	57.0
			01F06		775	39.4	14.5	18.7	36.8	50.8	110.5	52.3
			01F07		772	39.5	14.4	18.7	36.5	51.2	120.1	84.2
			01F08		790	39.7	14.9	18.9	37.5	50.3	109.8	59.3
			01F09		759	38.7	14.2	18.7	36.7	51.0	99.1	84.8
			01F10		790	38.9	14.3	18.1	36.8	49.2	100.7	39.8
			Mean		752	39.1	14.3	19.1	36.6	52.1	106.1	65.1
			S.D.		32	0.4	0.3	0.6	0.5	2.2	8.1	15.6
			Linalool oxide	80	02F01		764	39.1	14.4	18.8	36.8	51.2
02F02		636			35.5	12.9	20.3	36.3	55.8	115.4	45.0	
02F03		755			38.9	14.3	18.9	36.8	51.5	106.3	71.4	
02F04		722			37.5	13.7	19.0	36.5	51.9	89.2	27.3	
02F05		764			41.1	14.6	19.1	35.5	53.8	113.1	110.7	
02F06		722			37.3	13.4	18.6	35.9	51.7	115.9	53.9	
02F07		725			39.9	14.2	19.6	35.6	55.0	87.5	65.0	
02F08		754			38.8	14.0	18.6	36.1	51.5	112.8	63.0	
02F09		866			41.3	14.8	17.1	35.8	47.7	123.7	73.2	
02F10		800			39.4	14.2	17.8	36.0	49.3	96.9	58.4	
Mean		751			38.9	14.1	18.8	36.1	51.9	107.9	63.4	
S.D.		59			1.8	0.6	0.9	0.5	2.4	12.5	21.5	
Linalool oxide	250	03F01				762	39.0	14.4	18.9	36.9	51.2	124.8
		03F02		741	40.4	14.6	19.7	36.1	54.5	104.4	72.0	
		03F03		762	38.7	14.2	18.6	36.7	50.8	139.4	58.8	
		03F04		772	38.4	14.1	18.3	36.7	49.7	123.2	63.7	
		03F05		759	38.6	14.1	18.6	36.5	50.9	105.2	78.7	
		03F06		748	40.5	14.3	19.1	35.3	54.1	106.3	60.4	
		03F07		784	39.6	14.3	18.2	36.1	50.5	118.8	149.5	
		03F08		744	39.8	14.1	19.0	35.4	53.5	101.1	82.2	
		03F09		807	40.5	14.9	18.5	36.8	50.2	108.9	64.4	
		03F10		750	38.2	14.2	18.9	37.2	50.9	99.6	91.0	
		Mean		763	39.4	14.3	18.8	36.4	51.6	113.2	84.3	
		S.D.		20	0.9	0.3	0.4	0.6	1.7	12.9	29.7	

Appendix 7 Hematology - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Leukocytes, differential					Reticulo- cytes (x10 ⁴ /μL)	Coagulation test	
					Lympho- cytes (x10 ² /μL)	Neutro- phils (x10 ² /μL)	Eosino- phils (x10 ² /μL)	Baso- phils (x10 ² /μL)	Mono- cytes (x10 ² /μL)		PT (sec)	APTT (sec)
Female	Control	0	01F01		59.1	13.1	0.9	0.0	0.9	27.46	9.3	14.2
			01F02		53.0	13.2	1.0	0.0	2.5	22.76	9.3	11.8
			01F03		66.7	10.0	1.0	0.0	1.8	23.84	9.3	10.6
			01F04		39.8	8.8	0.6	0.0	1.3	31.46	9.2	12.8
			01F05		42.7	11.4	1.6	0.0	1.3	27.44	9.5	13.0
			01F06		44.7	5.7	0.7	0.0	1.2	22.63	9.3	13.2
			01F07		65.8	14.8	0.8	0.0	2.8	20.54	9.3	11.6
			01F08		49.8	6.9	0.8	0.0	1.8	25.28	9.5	12.3
			01F09		66.8	15.1	1.2	0.0	1.7	18.14	9.4	12.8
			01F10		33.0	5.5	0.8	0.0	0.5	27.97	9.7	12.7
			Mean		52.1	10.5	0.9	0.0	1.6	24.75	9.4	12.5
			S.D.		12.2	3.6	0.3	0.0	0.7	3.96	0.1	1.0
			Female	Linalool oxide	80	02F01		51.9	10.7	1.3	0.0	1.7
02F02		38.8				4.6	0.5	0.0	1.1	20.80	9.0	12.1
02F03		44.2				23.1	1.3	0.0	2.8	21.37	9.2	13.1
02F04		21.7				4.6	0.3	0.0	0.7	25.99	9.3	13.4
02F05		91.1				16.4	1.0	0.0	2.2	29.26	9.3	12.8
02F06		44.1				6.8	1.2	0.0	1.8	28.37	9.3	12.6
02F07		53.6				9.0	0.7	0.0	1.7	33.42	9.1	11.9
02F08		50.7				8.4	1.3	0.0	2.6	23.00	9.3	10.2
02F09		59.8				11.4	0.7	0.0	1.3	29.36	9.4	12.7
02F10		39.4				15.7	1.0	0.0	2.3	24.40	9.4	13.1
Mean		49.5				11.1	0.9	0.0	1.8	26.07	9.3	12.4
S.D.		18.0				5.9	0.4	0.0	0.7	4.00	0.1	0.9
Female	Linalool oxide	250				03F01		106.1	12.6	1.4	0.0	2.1
			03F02		63.1	7.3	0.6	0.0	1.0	21.19	9.3	11.6
			03F03		46.2	10.4	0.8	0.0	1.4	20.35	9.3	12.0
			03F04		46.7	12.9	1.4	0.0	2.7	24.86	9.3	12.3
			03F05		56.0	17.8	1.2	0.0	3.7	21.63	9.2	13.0
			03F06		50.3	8.4	0.3	0.0	1.4	33.06	9.3	12.3
			03F07		134.2	11.5	0.9	0.1	2.8	19.13	9.3	13.3
			03F08		64.8	15.1	1.0	0.0	1.3	27.23	9.2	14.2
			03F09		56.5	5.2	1.0	0.0	1.7	20.26	9.6	12.7
			03F10		78.4	9.3	0.9	0.0	2.4	21.00	9.3	13.8
			Mean		70.2	11.1	1.0	0.0	2.1	23.19	9.3	12.9
			S.D.		28.8	3.8	0.3	0.0	0.8	4.23	0.1	0.9



Appendix 7 Hematology - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	RBC (x10 ⁴ /μL)	HCT (%)	HGB (g/dL)	MCH (pg)	MCHC (g/dL)	MCV (fL)	PLT (x10 ⁴ /μL)	WBC (x10 ³ /μL)
Female	Linalool oxide	800	04F01		739	38.5	13.8	18.7	35.8	52.1	96.6	76.5
			04F02		700	38.8	13.7	19.6	35.3	55.4	114.2	47.5
			04F03		684	38.1	13.8	20.2	36.2	55.7	106.7	81.5
			04F04		747	38.0	13.7	18.3	36.1	50.9	125.4	53.9
			04F05		707	37.8	13.7	19.4	36.2	53.5	114.2	96.0
			04F06		747	38.3	13.9	18.6	36.3	51.3	115.7	59.9
			04F07		706	37.0	13.1	18.6	35.4	52.4	116.0	78.0
			04F08		755	40.9	14.3	18.9	35.0	54.2	107.7	112.1
			04F09		677	37.9	13.1	19.4	34.6	56.0	114.2	42.5
			04F10		761	39.3	14.1	18.5	35.9	51.6	105.6	76.5
			Mean				722	38.5	13.7	19.0	35.7	53.3
S.D.				31	1.1	0.4	0.6	0.6	1.9	7.8	21.8	



Appendix 7 Hematology - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Leukocytes, differential					Reticulo- cytes (x10 ⁹ /μL)	Coagulation test	
					Lympho- cytes (x10 ³ /μL)	Neutro- phils (x10 ³ /μL)	Eosino- phils (x10 ³ /μL)	Baso- phils (x10 ³ /μL)	Mono- cytes (x10 ³ /μL)		PT (sec)	APTT (sec)
Female	Linalool oxide	800	04F01		59.5	13.5	1.1	0.1	2.3	36.21	9.4	8.4
			04F02		40.9	4.9	0.5	0.0	1.2	28.21	9.1	12.2
			04F03		58.7	20.0	1.1	0.0	1.7	25.92	8.9	12.4
			04F04		43.5	8.8	0.8	0.0	0.8	18.45	8.9	12.3
			04F05		75.4	15.3	1.6	0.1	3.6	23.76	8.9	11.9
			04F06		49.4	7.9	0.6	0.0	2.0	26.67	9.1	10.4
			04F07		59.3	15.3	1.2	0.0	2.2	30.57	9.1	9.9
			04F08		98.4	10.4	1.1	0.0	2.2	28.24	9.3	12.0
			04F09		33.8	7.0	0.6	0.0	1.1	28.30	9.1	10.9
			04F10		60.2	12.4	1.0	0.0	2.9	23.36	9.3	12.6
			Mean				57.9	11.6	1.0	0.0	2.0	26.97
S.D.				18.6	4.6	0.3	0.0	0.9	4.72	0.2	1.4	

Appendix 8 Clinical chemistry - Individual values

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	AST (U/L)	ALT (U/L)	ALP (U/L)	γ-GTP (U/L)	T-BIL (mg/dL)	BUN (mg/dL)	CRE (mg/dL)	GLU (mg/dL)
Male	Control	0	01M01		79	28	298	0.3	0.04	11.6	0.36	141
			01M02		72	30	330	0.3	0.03	9.6	0.31	127
			01M03		96	37	652	0.4	0.05	12.7	0.33	124
			01M04		76	32	581	0.3	0.05	12.4	0.29	134
			01M05		88	45	322	0.5	0.05	12.0	0.33	131
			01M06		96	26	213	0.4	0.04	12.6	0.29	131
			01M07		99	43	516	0.3	0.05	11.2	0.29	153
			01M08		131	37	389	0.3	0.04	12.4	0.37	121
			01M09		71	21	214	0.3	0.04	13.3	0.29	137
			01M10		60	28	252	ND a,b	0.03	10.0	0.28	142
			Mean				87	33	377	0.3	0.04	11.8
	S.D.				20	8	155	0.1	0.01	1.2	0.03	10
	Linalool oxide	80	02M01		114	32	267	0.4	0.06	11.7	0.36	147
			02M02		63	30	305	0.3	0.04	15.4	0.39	140
			02M03		57	22	294	0.2 a	0.05	11.5	0.24	116
			02M04		140	42	232	0.5	0.08	12.8	0.32	116
			02M05		66	37	274	ND a,b	0.04	11.1	0.31	127
			02M06		71	18	395	0.4	0.03	10.7	0.35	168
			02M07		67	26	233	0.3	0.03	10.9	0.30	161
			02M08		117	27	329	0.3	0.04	10.7	0.30	121
			02M09		76	21	237	0.2	0.04	13.8	0.37	151
			02M10		71	25	386	0.4	0.03	13.4	0.32	132
			Mean				84	28	295	0.3	0.04	12.2
	S.D.				28	7	60	0.1	0.02	1.6	0.04	19
	Linalool oxide	250	03M01		79	21	300	0.2	0.05	13.2	0.30	115
			03M02		64	27	320	0.5	0.03	12.3	0.40	168
			03M03		134	35	383	0.6	0.05	14.9	0.42	121
			03M04		76	40	359	0.4	0.06	13.0	0.29	111
			03M05		110	31	343	0.5	0.04	15.7	0.28	110
			03M06		52	23	233	0.5	0.04	12.8	0.26	139
			03M07		106	39	414	0.5	0.04	12.6	0.26	125
			03M08		95	25	394	0.4	0.04	11.1	0.31	154
			03M09		61	24	255	0.4	0.03	11.0	0.25	123
03M10				63	25	275	0.4	0.03	13.1	0.35	142	
Mean						84	29	328	0.4	0.04	13.0	0.31
S.D.				26	7	61	0.1	0.01	1.5	0.06	19	

ND : NOT DONE

a : Reanalysis was performed.

b : Value was under the measuring limit.

Appendix 8 Clinical chemistry - Individual values (Continued)



Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	T-CHO (mg/dL)	PL (mg/dL)	TG (mg/dL)	TP (g/dL)	ALB (g/dL)	A/G ratio	IP (mg/dL)	Ca (mg/dL)
Male	Control	0	01M01		43	81	59	5.5	2.6	0.90	6.3	9.9
			01M02		68	107	44	5.9	2.6	0.79	6.4	9.8
			01M03		50	92	72	5.7	2.7	0.90	6.2	10.1
			01M04		69	122	78	6.4	3.0	0.88	6.2	10.3
			01M05		72	104	24	6.0	2.6	0.76	5.9	9.9
			01M06		44	79	35	6.0	2.5	0.71	6.0	9.9
			01M07		60	98	38	6.1	2.7	0.79	7.1	10.5
			01M08		40	79	43	5.8	2.6	0.81	7.1	10.1
			01M09		42	80	65	5.5	2.4	0.77	6.8	9.9
			01M10		53	95	60	6.1	2.7	0.79	6.4	10.2
	Mean		54	94	52	5.9	2.6	0.81	6.4	10.1		
	S.D.		12	14	18	0.3	0.2	0.06	0.4	0.2		
	Linalool oxide	80	02M01		53	96	76	5.9	2.7	0.84	6.3	10.2
			02M02		61	102	41	6.0	2.7	0.82	5.7	10.1
			02M03		38	69	15	6.0	2.9	0.94	6.4	10.1
			02M04		61	109	34	6.3	2.8	0.80	6.2	10.7
			02M05		54	96	66	6.2	2.7	0.77	6.4	10.2
			02M06		57	95	30	5.9	2.6	0.79	5.5	9.8
			02M07		56	112	118	6.2	2.7	0.77	6.5	10.8
02M08				51	97	66	6.1	2.9	0.91	6.4	10.1	
02M09				52	87	36	5.7	2.6	0.84	6.3	10.0	
02M10				58	109	51	6.0	2.7	0.82	6.3	10.2	
Mean		54	97	53	6.0	2.7	0.83	6.2	10.2			
S.D.		7	13	30	0.2	0.1	0.06	0.3	0.3			
Linalool oxide	250	03M01		52	100	75	6.5	2.9	0.81	5.7	10.4	
		03M02		65	108	47	5.7	2.6	0.84	6.0	9.6	
		03M03		54	88	51	6.0	2.7	0.82	5.8	9.7	
		03M04		63	114	70	5.4	2.7	1.00	5.7	9.8	
		03M05		75	113	50	6.3	2.8	0.80	6.2	10.1	
		03M06		47	84	45	6.2	2.8	0.82	6.5	10.3	
		03M07		60	86	26	6.0	2.5	0.71	6.6	10.3	
		03M08		69	108	54	6.2	2.7	0.77	6.6	10.3	
		03M09		59	92	41	6.3	2.8	0.80	6.6	10.7	
		03M10		35	72	55	5.9	2.7	0.84	6.7	9.9	
Mean		58	97	51	6.1	2.7	0.82	6.2	10.1			
S.D.		12	14	14	0.3	0.1	0.07	0.4	0.4			

Appendix 8 Clinical chemistry - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Mg (mg/dL)	Na (mEq/L)	K (mEq/L)	Cl (mEq/L)
Male	Control	0	01M01		2.0	142.7	4.54	107.9
			01M02		1.9	142.8	4.44	105.4
			01M03		2.1	143.9	4.27	106.8
			01M04		2.1	143.5	4.69	108.5
			01M05		2.1	143.4	4.32	105.3
			01M06		2.2	143.8	4.47	105.6
			01M07		2.1	143.1	4.59	104.6
			01M08		2.0	142.3	4.43	103.2
			01M09		2.0	142.6	4.82	104.9
			01M10		2.0	142.7	4.49	104.5
			Mean		2.1	143.1	4.51	105.7
	S.D.		0.1	0.5	0.16	1.6		
	Linalool oxide	80	02M01		2.1	144.6	4.44	107.0
			02M02		2.0	143.2	4.56	104.7
			02M03		2.1	143.7	4.17	107.4
			02M04		2.0	144.4	4.53	106.8
			02M05		2.3	143.3	4.42	105.2
			02M06		2.3	144.3	4.39	106.2
			02M07		1.9	142.1	4.53	102.1
			02M08		2.2	143.2	4.86	104.4
			02M09		2.2	142.3	4.25	104.6
			02M10		2.3	142.9	4.11	104.0
			Mean		2.1	143.4	4.43	105.2
	S.D.		0.1	0.9	0.22	1.6		
	Linalool oxide	250	03M01		2.0	144.0	4.78	105.3
			03M02		2.3	142.9	4.47	103.5
			03M03		2.3	143.4	4.80	106.3
			03M04		2.1	144.7	4.50	108.6
			03M05		2.1	141.3	5.00	103.5
			03M06		2.2	140.9	4.58	102.5
			03M07		2.0	141.8	4.67	102.6
			03M08		2.0	141.5	4.58	102.0
			03M09		1.7	142.7	4.06	102.6
03M10				2.1	143.8	4.51	104.9	
Mean				2.1	142.7	4.60	104.2	
S.D.		0.2	1.3	0.25	2.1			



Appendix 8 Clinical chemistry - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	AST (U/L)	ALT (U/L)	ALP (U/L)	γ-GTP (U/L)	T-BIL (mg/dL)	BUN (mg/dL)	CRE (mg/dL)	GLU (mg/dL)		
Male	Linalool oxide	800	04M01		79	47	313	0.6	0.05	13.3	0.35	94		
			04M02		109	39	251	0.6	0.04	17.8	0.38	96		
			04M03		115	38	375	0.9	0.05	11.2	0.29	134		
			04M04		73	37	384	0.8	0.07	12.2	0.33	131		
			04M05		69	30	300	0.7	0.05	12.2	0.26	112		
			04M06		87	38	240	0.8	0.05	11.2	0.28	99		
			04M07		83	38	270	0.8	0.06	13.4	0.25	99		
			04M08		86	37	227	1.4	0.05	11.5	0.26	142		
			04M09		60	45	254	0.4	0.04	13.0	0.25	124		
			04M10		57	31	469	0.6	0.04	9.7	0.29	118		
			Mean				82	38	308	0.8	0.05	12.6	0.29	115
			S.D.				19	5	78	0.3	0.01	2.2	0.05	18

Appendix 8 Clinical chemistry - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	T-CHO (mg/dL)	PL (mg/dL)	TG (mg/dL)	TP (g/dL)	ALB (g/dL)	A/G ratio	IP (mg/dL)	Ca (mg/dL)
Male	Linalool oxide	800	04M01		76	123	68	6.2	2.7	0.77	6.4	10.5
			04M02		59	100	39	6.2	2.5	0.68	6.3	9.7
			04M03		77	107	27	6.0	2.5	0.71	6.4	10.1
			04M04		61	97	31	6.3	2.6	0.70	5.7	10.3
			04M05		63	95	43	6.0	2.7	0.82	6.5	10.4
			04M06		53	93	27	6.3	2.9	0.85	5.9	10.2
			04M07		63	101	42	6.4	2.8	0.78	6.9	10.4
			04M08		51	90	38	6.4	2.8	0.78	6.4	10.2
			04M09		86	133	53	6.2	2.7	0.77	6.1	10.4
			04M10		63	107	39	6.0	2.8	0.88	7.1	10.1
						Mean		65	105	41	6.2	2.7
			S.D.		11	14	12	0.2	0.1	0.06	0.4	0.2

Appendix 8 Clinical chemistry - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Mg (mg/dL)	Na (mEq/L)	K (mEq/L)	Cl (mEq/L)
Male	Linalool oxide	800	04M01		2.4	143.7	4.51	103.5
			04M02		2.5	143.3	5.14	105.3
			04M03		2.3	142.9	5.23	107.3
			04M04		2.1	143.7	4.37	106.9
			04M05		2.3	142.5	5.10	103.0
			04M06		2.4	143.0	4.59	104.2
			04M07		2.4	144.3	4.69	103.8
			04M08		2.3	143.4	4.86	105.4
			04M09		2.1	141.4	4.98	102.3
			04M10		2.1	142.8	4.24	103.2
			Mean		2.3	143.1	4.77	104.5
S.D.		0.1	0.8	0.34	1.7			

Appendix 8 Clinical chemistry - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	AST (U/L)	ALT (U/L)	ALP (U/L)	γ-GTP (U/L)	T-BIL (mg/dL)	BUN (mg/dL)	CRE (mg/dL)	GLU (mg/dL)
Female	Control	0	01F01		74	23	140	0.3	0.04	15.1	0.41	126
			01F02		74	37	144	0.4	0.05	17.5	0.45	136
			01F03		69	27	126	ND a,b	0.04	14.0	0.40	100
			01F04		47	26	147	0.2	0.04	13.5	0.41	144
			01F05		69	24	183	0.4	0.04	11.8	0.35	132
			01F06		64	20	131	0.3	0.05	15.1	0.41	146
			01F07		55	38	133	0.2 a	0.06	17.1	0.36	123
			01F08		62	30	143	0.3	0.05	15.7	0.39	178
			01F09		78	25	154	0.4	0.05	15.5	0.45	113
			01F10		64	37	151	0.5	0.06	12.0	0.32	138
			Mean		66	29	145	0.3	0.05	14.7	0.40	134
			S.D.		9	6	16	0.1	0.01	1.9	0.04	21
Linalool oxide	80	02F01		80	28	160	0.3	0.05	11.4	0.36	123	
		02F02		87	25	135	0.3	0.05	12.7	0.44	134	
		02F03		77	22	250	0.2	0.06	13.3	0.38	142	
		02F04		78	36	110	0.4	0.03	13.6	0.38	130	
		02F05		74	24	115	0.2	0.06	13.5	0.38	110	
		02F06		82	28	159	0.3	0.06	11.0	0.36	132	
		02F07		53	24	143	0.4	0.04	11.6	0.38	127	
		02F08		60	27	136	0.5	0.05	16.0	0.44	121	
		02F09		151	49	235	0.5	0.06	17.3	0.36	136	
		02F10		71	26	112	0.5	0.03	11.4	0.35	125	
		Mean		81	29	156	0.4	0.05	13.2	0.38	128	
		S.D.		27	8	49	0.1	0.01	2.1	0.03	9	
Linalool oxide	250	03F01		97	28	161	0.3	0.03	12.0	0.44	122	
		03F02		88	30	139	0.3	0.06	13.3	0.45	90	
		03F03		70	28	96	0.6	0.07	13.6	0.36	104	
		03F04		82	32	254	0.5	0.06	13.9	0.36	111	
		03F05		91	60	137	0.3	0.07	12.6	0.37	115	
		03F06		110	36	165	1.0	0.09	11.8	0.33	106	
		03F07		91	42	346	ND a,b	0.07	15.5	0.33	114	
		03F08		79	23	135	0.8	0.07	14.0	0.39	98	
		03F09		113	39	155	0.6	0.08	14.8	0.38	101	
		03F10		81	25	110	0.3	0.04	14.9	0.39	133	
		Mean		90	34	170	0.5	0.06	13.6	0.38	109	
		S.D.		14	11	75	0.3	0.02	1.2	0.04	12	

ND : NOT DONE

a : Reanalysis was performed.

b : Value was under the measuring limit.

Appendix 8 Clinical chemistry - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	T-CHO (mg/dL)	PL (mg/dL)	TG (mg/dL)	TP (g/dL)	ALB (g/dL)	A/G ratio	IP (mg/dL)	Ca (mg/dL)
Female	Control	0	01F01		78	169	70	6.8	3.4	1.00	4.8	10.4
			01F02		88	173	52	6.7	3.4	1.03	4.9	10.8
			01F03		57	121	35	6.5	3.2	0.97	4.5	10.3
			01F04		85	186	94	6.5	3.4	1.10	3.8	10.7
			01F05		72	148	49	6.4	3.1	0.94	4.5	10.2
			01F06		70	135	26	6.5	3.4	1.10	4.9	10.2
			01F07		72	151	49	6.7	3.6	1.16	5.8	10.5
			01F08		76	145	46	6.3	3.1	0.97	5.2	10.5
			01F09		58	110	6	6.3	3.0	0.91	5.4	9.7
			01F10		68	140	34	6.1	3.2	1.10	5.2	10.0
			Mean		72	148	46	6.5	3.3	1.03	4.9	10.3
			S.D.		10	23	24	0.2	0.2	0.08	0.6	0.3
			Female	Linalool oxide	80	02F01		72	157	83	6.5	3.5
02F02		87				175	42	6.9	3.7	1.16	4.4	10.6
02F03		67				131	33	6.3	3.1	0.97	4.6	10.1
02F04		87				178	85	7.0	3.7	1.12	3.0	10.5
02F05		55				120	31	6.6	3.3	1.00	5.3	9.9
02F06		99				196	53	7.1	3.5	0.97	4.7	10.7
02F07		81				155	30	6.1	2.9	0.91	6.2	10.5
02F08		98				177	48	6.9	3.4	0.97	5.3	11.0
02F09		75				146	46	6.1	2.9	0.91	5.0	9.7
02F10		75				143	29	6.1	3.0	0.97	5.0	10.0
Mean		80				158	48	6.6	3.3	1.02	4.8	10.3
S.D.		14				24	21	0.4	0.3	0.10	0.8	0.4
Female	Linalool oxide	250				03F01		58	122	15	6.9	3.4
			03F02		72	153	33	6.8	3.4	1.00	4.9	10.1
			03F03		95	190	102	6.5	3.3	1.03	4.5	10.5
			03F04		75	158	92	7.4	3.6	0.95	4.7	10.8
			03F05		83	167	56	6.4	3.1	0.94	4.1	10.1
			03F06		90	172	26	6.2	3.0	0.94	5.4	9.8
			03F07		110	197	39	6.6	3.1	0.89	5.5	10.5
			03F08		78	152	20	6.2	3.0	0.94	5.9	10.0
			03F09		80	134	23	5.9	2.8	0.90	5.1	10.0
			03F10		73	128	25	6.2	2.8	0.82	5.6	10.0
			Mean		81	157	43	6.5	3.2	0.94	5.0	10.2
			S.D.		14	25	31	0.4	0.3	0.06	0.6	0.3

Appendix 8 Clinical chemistry - Individual values (Continued)

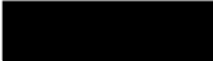
Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Mg (mg/dL)	Na (mEq/L)	K (mEq/L)	Cl (mEq/L)
Female	Control	0	01F01		2.1	144.3	4.08	104.2
			01F02		2.0	143.3	4.03	103.2
			01F03		2.1	144.2	4.17	106.6
			01F04		1.9	144.0	3.60	110.1
			01F05		2.2	143.6	4.08	107.5
			01F06		2.1	141.8	4.47	104.4
			01F07		2.2	142.5	4.32	103.7
			01F08		2.1	141.4	4.18	103.5
			01F09		2.3	142.0	3.97	104.8
			01F10		2.1	144.2	3.58	104.8
			Mean		2.1	143.1	4.05	105.3
			S.D.		0.1	1.1	0.28	2.2
			Linalool oxide	80	02F01		2.2	143.5
02F02		2.2			142.6	4.20	103.4	
02F03		2.1			143.0	3.98	106.2	
02F04		2.0			143.9	3.86	109.2	
02F05		2.1			144.2	4.16	106.6	
02F06		2.3			142.6	4.45	105.2	
02F07		2.1			142.8	3.81	103.1	
02F08		2.3			141.6	4.26	102.5	
02F09		2.3			142.3	4.16	103.8	
02F10		2.3			143.1	3.72	103.5	
Mean		2.2			143.0	4.10	104.8	
S.D.		0.1			0.8	0.24	2.0	
Linalool oxide	250	03F01				2.0	142.0	4.18
		03F02		2.3	142.2	3.94	101.8	
		03F03		2.1	145.2	4.24	105.8	
		03F04		2.2	142.6	4.28	105.0	
		03F05		2.2	142.1	3.88	105.8	
		03F06		2.2	142.9	3.94	104.1	
		03F07		2.1	143.6	3.72	104.1	
		03F08		2.4	144.0	3.78	104.7	
		03F09		2.1	141.5	3.95	102.1	
		03F10		2.1	142.1	3.85	103.6	
		Mean		2.2	142.8	3.98	103.9	
		S.D.		0.1	1.1	0.19	1.5	





Appendix 8 Clinical chemistry - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	AST (U/L)	ALT (U/L)	ALP (U/L)	γ-GTP (U/L)	T-BIL (mg/dL)	BUN (mg/dL)	CRE (mg/dL)	GLU (mg/dL)
Female	Linalool oxide	800	04F01		88	44	157	0.8	0.07	15.5	0.33	110
			04F02		56	39	132	0.8	0.05	16.6	0.32	128
			04F03		66	29	101	0.8	0.05	18.2	0.38	110
			04F04		75	31	121	1.6	0.06	17.3	0.42	104
			04F05		110	41	87	0.7	0.10	16.5	0.37	100
			04F06		51	30	102	0.7	0.05	12.9	0.34	107
			04F07		56	27	146	1.1	0.07	12.7	0.30	134
			04F08		59	38	107	0.6	0.05	18.7	0.30	100
			04F09		51	26	121	0.6	0.08	10.8	0.30	106
			04F10		45	30	77	0.7	0.04	14.0	0.31	135
			Mean				66	34	115	0.8	0.06	15.3
S.D.				20	6	25	0.3	0.02	2.6	0.04	14	



Appendix 8 Clinical chemistry - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	T-CHO (mg/dL)	PL (mg/dL)	TG (mg/dL)	TP (g/dL)	ALB (g/dL)	A/G ratio	IP (mg/dL)	Ca (mg/dL)
Female	Linalool oxide	800	04F01		93	179	68	6.0	2.9	0.94	4.7	10.0
			04F02		112	187	39	6.2	3.1	1.00	4.8	9.9
			04F03		92	168	33	6.7	3.1	0.86	5.3	10.4
			04F04		90	168	88	6.4	3.0	0.88	4.2	10.0
			04F05		129	224	88	6.9	3.2	0.86	5.1	10.5
			04F06		132	211	84	6.5	3.2	0.97	4.7	10.4
			04F07		108	179	67	6.6	3.0	0.83	5.6	10.6
			04F08		111	178	77	6.3	3.1	0.97	5.0	10.4
			04F09		112	185	19	6.7	3.3	0.97	6.1	10.5
			04F10		131	217	56	6.5	3.1	0.91	5.0	9.9
			Mean				111	190	62	6.5	3.1	0.92
S.D.				16	20	24	0.3	0.1	0.06	0.5	0.3	

Appendix 8 Clinical chemistry - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Mg (mg/dL)	Na (mEq/L)	K (mEq/L)	Cl (mEq/L)
Female	Linalool oxide	800	04F01		2.4	143.3	4.51	101.7
			04F02		2.3	144.1	4.48	107.6
			04F03		2.3	143.8	4.08	104.8
			04F04		2.4	144.0	4.22	105.5
			04F05		2.3	141.6	3.78	103.0
			04F06		2.3	142.0	4.27	102.2
			04F07		2.1	142.1	4.34	103.1
			04F08		2.3	142.3	4.19	102.3
			04F09		2.2	144.4	4.35	103.1
			04F10		2.5	143.0	3.38	102.2
						Mean	2.3	143.1
			S.D.	0.1	1.0	0.34	1.9	



Appendix 9 Gross pathology - Individual data

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Gross pathological findings
Male	Control	0	01M01		Not remarkable
			01M02		Not remarkable
			01M03		Not remarkable
			01M04		Spleen : Accessory spleen
			01M05		Not remarkable
			01M06		Not remarkable
			01M07		Not remarkable
			01M08		Not remarkable
			01M09		Small intestine : Diverticulum
			01M10		Not remarkable
	Linalool oxide	80	02M01		Not remarkable
			02M02		Not remarkable
			02M03		Not remarkable
			02M04		Not remarkable
			02M05		Not remarkable
			02M06		Not remarkable
			02M07		Not remarkable
			02M08		Not remarkable
			02M09		Not remarkable
			02M10		Not remarkable
	Linalool oxide	250	03M01		Not remarkable
			03M02		Not remarkable
			03M03		Not remarkable
			03M04		Not remarkable
			03M05		Not remarkable
			03M06		Kidney : Recessed area/Unilateral
			03M07		Not remarkable
			03M08		Not remarkable
			03M09		Not remarkable
			03M10		Not remarkable
Linalool oxide	800	04M01		Stomach : Discolored spot/Single	
		04M02		Not remarkable	
		04M03		Not remarkable	
		04M04		Not remarkable	
		04M05		Not remarkable	
		04M06		Not remarkable	
		04M07		Not remarkable	
		04M08		Stomach : Discolored spot/Single	
		04M09		Not remarkable	
		04M10		Not remarkable	



Appendix 9 Gross pathology - Individual data (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Gross pathological findings
Female	Control	0	01F01		Not remarkable
			01F02		Not remarkable
			01F03		Not remarkable
			01F04		Not remarkable
			01F05		Not remarkable
			01F06		Not remarkable
			01F07		Not remarkable
			01F08		Not remarkable
			01F09		Not remarkable
			01F10		Not remarkable
	Linalool oxide	80	02F01		Not remarkable
			02F02		Not remarkable
			02F03		Not remarkable
			02F04		Not remarkable
			02F05		Not remarkable
			02F06		Not remarkable
			02F07		Not remarkable
			02F08		Not remarkable
			02F09		Not remarkable
			02F10		Not remarkable
	Linalool oxide	250	03F01		Not remarkable
			03F02		Not remarkable
			03F03		Not remarkable
			03F04		Not remarkable
			03F05		Not remarkable
			03F06		Not remarkable
			03F07		Not remarkable
			03F08		Not remarkable
			03F09		Not remarkable
			03F10		Not remarkable
Linalool oxide	800	04F01		Not remarkable	
		04F02		Uterus : Dilatation/Horn/Bilateral	
		04F03		Not remarkable	
		04F04		Not remarkable	
		04F05		Not remarkable	
		04F06		Not remarkable	
		04F07		Not remarkable	
		04F08		Ovary : Discolored spot/Black/Unilateral/Single	
		04F09		Not remarkable	
		04F10		Not remarkable	

Appendix 10 Organ weights - Individual values

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Body weight (g)	Brain (g)	Heart (g)	Lungs (g)	Liver (g)	Kidneys (g)	Spleen (g)	Thymus (g)	Pituitary (mg)	
Male	Control	0	01M01		569.9	2.216	1.544	1.546	13.468	3.217	0.682	0.290	12.3	
			01M02		634.1	2.149	1.962	1.737	16.534	3.958	0.727	0.254	13.6	
			01M03		634.1	2.107	1.580	1.513	15.635	3.059	0.824	0.257	12.8	
			01M04		704.9	2.358	1.775	1.716	18.744	3.764	1.080	0.372	14.4	
			01M05		661.7	2.262	1.735	1.502	15.815	4.063	0.834	0.239	14.8	
			01M06		594.8	2.251	1.733	1.488	15.395	3.898	0.950	0.329	15.2	
			01M07		648.4	2.411	1.699	1.572	19.138	3.851	1.101	0.316	12.5	
			01M08		674.5	2.290	1.632	1.705	16.460	3.803	0.919	0.202	15.9	
			01M09		658.7	2.282	1.784	1.701	15.039	3.592	1.202	0.398	13.8	
			01M10		627.3	2.279	1.719	1.577	16.412	3.655	0.761	0.304	15.8	
				Mean		640.8	2.261	1.716	1.606	16.264	3.686	0.908	0.296	14.1
				S.D.		38.7	0.089	0.118	0.098	1.674	0.322	0.174	0.061	1.3
		Linalool oxide	80	02M01		674.9	2.344	1.604	1.674	17.552	3.825	1.126	0.294	15.0
				02M02		552.1	2.223	1.642	1.515	14.630	3.739	0.647	0.273	12.3
				02M03		469.3	2.156	1.679	1.408	13.024	3.687	0.655	0.170	14.8
				02M04		517.9	1.985	1.476	1.379	16.086	3.469	0.842	0.279	12.3
				02M05		594.6	2.153	1.667	1.424	15.885	3.441	0.838	0.238	15.9
				02M06		606.8	2.273	1.674	1.623	18.640	3.651	0.914	0.316	14.3
				02M07		690.5	2.323	1.736	1.635	22.220	4.775	0.974	0.307	15.7
				02M08		515.0	2.212	1.506	1.442	13.208	3.163	0.562	0.191	11.6
				02M09		666.7	2.444	1.948	1.773	18.305	3.835	0.791	0.200	17.9
				02M10		623.0	2.268	2.198	1.586	18.292	3.980	0.856	0.193	14.8
				Mean		591.1	2.238	1.713	1.546	16.784	3.757	0.821	0.246	14.5
				S.D.		75.6	0.126	0.214	0.132	2.809	0.428	0.168	0.054	1.9
		Linalool oxide	250	03M01		509.0	2.185	1.652	1.746	15.317	3.542	0.636	0.216	12.6
				03M02		611.5	2.176	1.798	1.489	18.986	3.531	0.880	0.225	14.1
				03M03		574.3	2.426	1.557	1.553	14.426	3.496	0.753	0.287	14.1
				03M04		611.2	2.193	1.918	1.549	16.790	4.695	0.937	0.311	15.5
				03M05		500.9	2.235	1.588	1.446	14.438	3.502	0.804	0.285	13.9
				03M06		532.8	2.240	1.614	1.572	16.107	4.000	0.619	0.188	15.3
	03M07				571.3	2.257	1.461	1.513	15.657	3.937	0.851	0.269	14.8	
	03M08				592.7	2.265	1.685	1.678	16.609	3.790	0.709	0.296	13.4	
	03M09				580.4	2.261	1.511	1.577	16.440	4.185	0.724	0.305	14.9	
	03M10				567.4	2.250	1.619	1.592	16.590	4.377	0.648	0.243	12.3	
			Mean		565.2	2.249	1.640	1.572	16.136	3.906	0.756	0.263	14.1	
			S.D.		39.0	0.070	0.135	0.088	1.324	0.415	0.109	0.042	1.1	

Body weight : The value presented was obtained after the animal was fasted overnight.

Appendix 10 Organ weights - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Thyroids	Adrenals	Testes	Prostate	Seminal vesicles	Salivary glands	
					(mg)	(mg)	(g)	(g)	(g)	(g)	
Male	Control	0	01M01		19.5	55.0	3.694	1.812	1.249	0.641	
			01M02		34.9	65.1	4.105	2.196	1.456	0.832	
			01M03		26.8	57.2	3.655	1.880	1.251	0.795	
			01M04		25.6	57.0	3.732	2.104	1.311	0.977	
			01M05		21.2	60.8	3.553	2.064	1.523	0.886	
			01M06		26.4	66.8	4.266	1.528	1.111	0.752	
			01M07		22.4	53.6	3.816	2.193	1.762	0.849	
			01M08		24.0	59.7	4.035	1.872	1.351	0.729	
			01M09		31.0	62.6	3.762	2.334	1.665	1.013	
			01M10		27.4	47.2	3.467	1.305	1.562	0.773	
				Mean	25.9	58.5	3.809	1.929	1.424	0.825	
				S.D.	4.6	5.8	0.253	0.320	0.205	0.113	
		Linalool oxide	80	02M01		36.4	65.6	3.754	2.326	1.407	0.927
	02M02				18.7	53.8	3.560	1.558	1.394	0.764	
	02M03				24.3	66.1	3.656	2.136	1.474	0.747	
	02M04				18.5	54.0	2.937	1.786	1.398	0.685	
	02M05				24.3	86.4	4.200	1.768	1.355	0.717	
	02M06				30.8	69.6	3.535	2.407	1.388	0.841	
	02M07				24.5	72.0	3.309	2.123	1.326	0.682	
	02M08				25.8	56.4	3.061	1.454	1.162	0.640	
	02M09				28.7	79.8	3.912	1.719	1.388	0.727	
	02M10				24.3	57.0	3.114	2.111	1.568	0.765	
				Mean	25.6	66.1	3.504	1.939	1.386	0.750	
				S.D.	5.4	11.2	0.401	0.325	0.103	0.083	
		Linalool oxide	250	03M01		21.4	79.8	4.110	1.756	1.417	0.626
	03M02				26.5	43.4	3.900	1.709	1.323	0.800	
	03M03				25.9	53.7	3.452	1.793	1.376	0.716	
	03M04				33.2	52.9	2.177	2.188	1.505	0.747	
	03M05				23.9	51.3	3.675	1.575	1.225	0.685	
	03M06				21.8	92.0	3.820	2.328	1.319	0.690	
03M07				37.7	61.3	3.480	1.695	1.303	0.669		
03M08				26.7	62.8	3.747	1.594	1.128	0.720		
03M09				28.5	67.6	3.437	1.993	1.533	0.833		
03M10				25.3	51.1	3.461	2.061	1.338	0.733		
			Mean	27.1	61.6	3.526	1.869	1.347	0.722		
			S.D.	5.0	14.8	0.525	0.258	0.121	0.061		



Appendix 10 Organ weights - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Body weight (g)	Brain (g)	Heart (g)	Lungs (g)	Liver (g)	Kidneys (g)	Spleen (g)	Thymus (g)	Pituitary (mg)	
Male	Linalool oxide	800	04M01		540.2	2.217	1.590	1.601	17.231	4.301	0.765	0.283	12.5	
			04M02		513.0	2.168	1.509	1.623	16.766	4.075	0.858	0.128	14.4	
			04M03		573.2	2.156	1.618	1.431	18.150	3.751	0.711	0.189	14.9	
			04M04		551.0	2.152	1.606	1.544	19.460	4.401	0.986	0.262	16.5	
			04M05		529.7	2.227	1.514	1.542	15.738	3.874	0.683	0.249	12.4	
			04M06		452.1	2.068	1.439	1.328	14.549	3.191	0.633	0.387	11.1	
			04M07		460.4	2.134	1.392	1.395	15.257	3.494	0.532	0.253	11.0	
			04M08		539.3	2.131	1.659	1.504	18.791	3.657	0.716	0.405	12.8	
			04M09		457.6	2.176	1.299	1.352	14.953	3.700	0.564	0.167	12.3	
			04M10		520.3	2.161	1.412	1.465	16.656	3.921	0.663	0.256	14.3	
			Mean		513.7		2.159	1.504	1.479	16.755	3.837	0.711	0.258	13.2
			S.D.		42.7		0.045	0.117	0.102	1.668	0.364	0.135	0.088	1.8

Body weight : The value presented was obtained after the animal was fasted overnight.

Appendix 10 Organ weights - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Thyroids	Adrenals	Testes	Prostate	Seminal vesicles	Salivary glands
					(mg)	(mg)	(g)	(g)	(g)	(g)
Male	Linalool oxide	800	04M01		36.6	64.9	3.636	1.658	0.973	0.651
			04M02		27.9	70.5	3.811	1.540	1.238	0.769
			04M03		30.4	66.9	3.334	1.802	1.443	0.688
			04M04		32.0	66.6	3.502	1.833	1.325	0.734
			04M05		29.3	64.1	4.182	1.692	1.144	0.716
			04M06		31.7	53.1	2.937	1.416	0.797	0.616
			04M07		25.9	56.1	3.508	2.082	1.579	0.710
			04M08		27.5	59.6	2.975	1.378	0.931	0.749
			04M09		32.2	52.7	3.332	1.619	1.454	0.630
			04M10		26.2	48.7	3.605	1.602	1.181	0.685
			Mean				30.0	60.3	3.482	1.662
S.D.				3.3	7.3	0.371	0.208	0.252	0.051	

Appendix 10 Organ weights - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Body weight (g)	Brain (g)	Heart (g)	Lungs (g)	Liver (g)	Kidneys (g)	Spleen (g)	Thymus (g)	Pituitary (mg)
Female	Control	0	01F01		387.2	1.994	1.084	1.238	9.395	1.893	0.620	0.303	18.0
			01F02		338.7	1.994	1.010	1.258	9.530	1.756	0.504	0.312	15.6
			01F03		302.3	1.935	0.964	1.171	7.647	1.828	0.553	0.324	16.8
			01F04		346.0	1.947	1.006	1.135	9.253	1.894	0.620	0.281	17.7
			01F05		329.2	2.073	0.959	1.234	8.529	2.076	0.506	0.311	13.4
			01F06		314.8	1.948	0.946	1.174	7.951	1.856	0.484	0.247	17.5
			01F07		315.4	2.121	1.045	1.145	8.304	2.034	0.500	0.276	17.3
			01F08		326.6	2.038	0.890	1.193	7.567	1.881	0.524	0.290	16.5
			01F09		308.7	1.981	1.023	1.183	8.099	2.125	0.555	0.293	18.9
			01F10		280.0	2.086	0.819	1.043	7.549	1.690	0.570	0.226	15.3
			Mean		324.9	2.012	0.975	1.177	8.382	1.903	0.544	0.286	16.7
			S.D.		28.9	0.065	0.077	0.062	0.767	0.138	0.049	0.030	1.6
			Female	Linalool oxide	80	02F01		293.7	2.016	0.860	1.044	7.810	1.863
02F02		321.5				1.872	1.122	1.169	8.768	1.668	0.451	0.195	17.5
02F03		322.2				2.072	1.000	1.190	8.043	2.039	0.534	0.277	17.1
02F04		351.5				1.906	1.047	1.158	9.464	1.975	0.502	0.287	16.0
02F05		301.1				2.038	1.033	1.259	8.035	2.039	0.646	0.378	16.9
02F06		340.6				2.084	0.972	1.145	10.028	2.003	0.584	0.212	26.5
02F07		302.8				1.907	1.106	1.136	9.197	1.924	0.579	0.246	15.2
02F08		350.2				2.045	0.981	1.087	9.087	1.875	0.509	0.237	19.5
02F09		287.3				2.005	0.923	1.099	8.125	1.989	0.608	0.223	13.9
02F10		277.0				1.912	0.801	1.047	7.366	1.800	0.518	0.292	23.1
Mean		314.8				1.986	0.985	1.133	8.592	1.918	0.533	0.255	18.4
S.D.		26.5				0.079	0.102	0.066	0.844	0.118	0.074	0.056	3.8
Female	Linalool oxide	250				03F01		306.9	2.116	0.857	1.077	8.258	1.784
			03F02		318.7	1.976	1.066	1.259	8.557	2.059	0.636	0.303	20.6
			03F03		294.9	1.741	0.931	1.114	8.139	1.811	0.526	0.202	16.4
			03F04		316.9	2.029	0.867	1.041	8.449	1.790	0.473	0.173	17.6
			03F05		290.1	1.991	1.002	1.098	8.440	1.686	0.574	0.193	18.1
			03F06		259.8	2.035	0.868	1.065	6.928	1.771	0.505	0.250	13.5
			03F07		281.1	1.993	0.946	1.084	8.385	2.018	0.642	0.212	18.6
			03F08		280.3	2.141	0.976	1.082	8.412	1.831	0.556	0.239	21.9
			03F09		356.0	2.142	1.189	1.290	8.774	2.335	0.707	0.504	20.8
			03F10		302.4	1.824	0.992	1.123	8.807	2.106	0.575	0.278	16.0
			Mean		300.7	1.999	0.969	1.123	8.315	1.919	0.570	0.271	17.8
			S.D.		26.5	0.131	0.103	0.083	0.529	0.202	0.074	0.098	2.7

Body weight : The value presented was obtained after the animal was fasted overnight.

Appendix 10 Organ weights - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Thyroids (mg)	Adrenals (mg)	Ovaries (mg)	Uterus (g)	Salivary glands (g)
Female	Control	0	01F01		20.4	58.5	138.7	0.539	0.524
			01F02		23.3	62.4	131.3	0.551	0.589
			01F03		20.3	61.0	114.7	0.483	0.551
			01F04		24.1	53.0	114.6	0.573	0.504
			01F05		22.2	59.8	123.4	0.494	0.413
			01F06		18.6	63.1	104.1	0.406	0.540
			01F07		16.1	65.3	129.7	0.581	0.374
			01F08		22.1	56.6	104.0	0.447	0.439
			01F09		18.8	93.7	135.8	0.555	0.482
			01F10		17.8	58.0	128.7	1.062	0.443
			Mean		20.4	63.1	122.5	0.569	0.486
			S.D.		2.6	11.3	12.5	0.182	0.068
				Linalool oxide	80	02F01		24.1	64.9
02F02		18.6				60.1	122.1	0.442	0.496
02F03		24.9				66.6	110.1	0.530	0.437
02F04		15.7				64.8	100.6	0.784	0.463
02F05		17.8				70.0	132.9	0.843	0.420
02F06		25.2				81.0	78.7	0.473	0.462
02F07		22.3				72.4	133.2	0.593	0.504
02F08		27.0				59.2	128.1	0.420	0.428
02F09		17.5				54.5	118.3	0.992	0.512
02F10		24.8				68.0	117.6	0.496	0.404
Mean		21.8				66.2	116.5	0.615	0.446
S.D.		4.0				7.5	16.6	0.193	0.053
	Linalool oxide	250				03F01		15.0	78.5
			03F02		21.2	62.6	110.7	0.580	0.525
			03F03		17.1	89.0	90.1	0.773	0.326
			03F04		29.1	57.2	108.6	0.427	0.417
			03F05		21.6	68.1	93.5	0.628	0.431
			03F06		18.3	64.1	125.6	1.058	0.376
			03F07		24.9	64.8	118.3	0.537	0.421
			03F08		20.3	76.8	152.4	0.530	0.424
			03F09		35.3	62.5	146.7	0.433	0.431
			03F10		19.2	74.6	170.8	0.388	0.464
			Mean		22.2	69.8	122.7	0.598	0.421
			S.D.		6.1	9.7	26.3	0.198	0.052



Appendix 10 Organ weights - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Body weight (g)	Brain (g)	Heart (g)	Lungs (g)	Liver (g)	Kidneys (g)	Spleen (g)	Thymus (g)	Pituitary (mg)
Female	Linalool oxide	800	04F01		291.2	1.951	0.826	1.127	8.708	1.721	0.589	0.306	13.3
			04F02		284.2	2.075	0.922	1.003	10.203	2.030	0.513	0.224	16.7
			04F03		323.6	1.979	0.965	1.244	10.163	2.057	0.535	0.263	19.2
			04F04		260.6	1.979	0.892	1.112	8.578	1.757	0.525	0.309	14.9
			04F05		321.0	2.066	1.094	1.091	11.820	2.168	0.602	0.249	22.0
			04F06		295.7	1.968	0.984	1.023	10.026	1.765	0.562	0.216	15.5
			04F07		281.4	1.981	1.014	1.100	10.025	2.201	0.478	0.214	17.9
			04F08		289.3	2.019	1.002	1.112	10.358	2.141	0.582	0.259	14.8
			04F09		283.3	1.906	1.033	1.287	9.678	2.205	0.463	0.282	16.9
			04F10		292.8	1.987	1.021	1.147	11.599	2.268	0.459	0.267	20.9
			Mean		292.3	1.991	0.975	1.125	10.116	2.031	0.531	0.259	17.2
S.D.		18.5	0.051	0.077	0.087	1.040	0.208	0.053	0.034	2.8			

Body weight : The value presented was obtained after the animal was fasted overnight.

Appendix 10 Organ weights - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Thyroids (mg)	Adrenals (mg)	Ovaries (mg)	Uterus (g)	Salivary glands (g)
Female	Linalool oxide	800	04F01		20.0	66.2	99.9	0.836	0.391
			04F02		19.7	85.9	107.8	1.034	0.469
			04F03		21.9	66.4	120.1	0.511	0.500
			04F04		20.3	85.8	88.4	0.624	0.394
			04F05		22.6	111.5	84.0	0.686	0.503
			04F06		16.7	63.2	88.5	0.429	0.387
			04F07		27.2	71.4	107.1	0.635	0.404
			04F08		22.7	69.4	114.3	0.496	0.440
			04F09		27.7	69.2	139.1	0.548	0.467
			04F10		18.5	69.1	99.8	0.543	0.554
			Mean				21.7	75.8	104.9
S.D.				3.5	14.8	16.8	0.181	0.057	

Appendix 11 Organ to body weight ratio (g/100g B.W.) - Individual values

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Brain	Heart	Lungs	Liver	Kidneys	Spleen	Thymus	Pituitary (x10 ⁻³)	Thyroids (x10 ⁻³)
Male	Control	0	01M01		0.389	0.271	0.271	2.363	0.564	0.120	0.051	2.16	3.42
			01M02		0.339	0.309	0.274	2.607	0.624	0.115	0.040	2.14	5.50
			01M03		0.332	0.249	0.239	2.466	0.482	0.130	0.041	2.02	4.23
			01M04		0.335	0.252	0.243	2.659	0.534	0.153	0.053	2.04	3.63
			01M05		0.342	0.262	0.227	2.390	0.614	0.126	0.036	2.24	3.20
			01M06		0.378	0.291	0.250	2.588	0.655	0.160	0.055	2.56	4.44
			01M07		0.372	0.262	0.242	2.952	0.594	0.170	0.049	1.93	3.45
			01M08		0.340	0.242	0.253	2.440	0.564	0.136	0.030	2.36	3.56
			01M09		0.346	0.271	0.258	2.283	0.545	0.182	0.060	2.10	4.71
			01M10		0.363	0.274	0.251	2.616	0.583	0.121	0.048	2.52	4.37
			Mean				0.354	0.268	0.251	2.536	0.576	0.141	0.046
	S.D.				0.020	0.020	0.014	0.192	0.050	0.023	0.009	0.21	0.72
	Linalool oxide	80	02M01		0.347	0.238	0.248	2.601	0.567	0.167	0.044	2.22	5.39
			02M02		0.403	0.297	0.274	2.650	0.677	0.117	0.049	2.23	3.39
			02M03		0.459	0.358	0.300	2.775	0.786	0.140	0.036	3.15	5.18
			02M04		0.383	0.285	0.266	3.106	0.670	0.163	0.054	2.37	3.57
			02M05		0.362	0.280	0.239	2.672	0.579	0.141	0.040	2.67	4.09
			02M06		0.375	0.276	0.267	3.072	0.602	0.151	0.052	2.36	5.08
			02M07		0.336	0.251	0.237	3.218	0.692	0.141	0.044	2.27	3.55
			02M08		0.430	0.292	0.280	2.565	0.614	0.109	0.037	2.25	5.01
			02M09		0.367	0.292	0.266	2.746	0.575	0.119	0.030	2.68	4.30
			02M10		0.364	0.353	0.255	2.936	0.639	0.137	0.031	2.38	3.90
			Mean				0.383	0.292	0.263	2.834	0.640	0.139	0.042
	S.D.				0.038	0.038	0.019	0.232	0.068	0.019	0.008	0.30	0.76
	Linalool oxide	250	03M01		0.429	0.325	0.343	3.009	0.696	0.125	0.042	2.48	4.20
			03M02		0.356	0.294	0.243	3.105	0.577	0.144	0.037	2.31	4.33
			03M03		0.422	0.271	0.270	2.512	0.609	0.131	0.050	2.46	4.51
			03M04		0.359	0.314	0.253	2.747	0.768	0.153	0.051	2.54	5.43
			03M05		0.446	0.317	0.289	2.882	0.699	0.161	0.057	2.78	4.77
			03M06		0.420	0.303	0.295	3.023	0.751	0.116	0.035	2.87	4.09
			03M07		0.395	0.256	0.265	2.741	0.689	0.149	0.047	2.59	6.60
			03M08		0.382	0.284	0.283	2.802	0.639	0.120	0.050	2.26	4.50
			03M09		0.390	0.260	0.272	2.833	0.721	0.125	0.053	2.57	4.91
03M10				0.397	0.285	0.281	2.924	0.771	0.114	0.043	2.17	4.46	
Mean						0.400	0.291	0.279	2.858	0.692	0.134	0.047	2.50
S.D.				0.030	0.024	0.027	0.172	0.066	0.017	0.007	0.22	0.75	

Appendix 11 Organ to body weight ratio (g/100g B.W.) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Adrenals (x10 ⁻³)	Testes	Prostate	Seminal vesicles	Salivary glands
Male	Control	0	01M01		9.65	0.648	0.318	0.219	0.112
			01M02		10.27	0.647	0.346	0.230	0.131
			01M03		9.02	0.576	0.296	0.197	0.125
			01M04		8.09	0.529	0.298	0.186	0.139
			01M05		9.19	0.537	0.312	0.230	0.134
			01M06		11.23	0.717	0.257	0.187	0.126
			01M07		8.27	0.589	0.338	0.272	0.131
			01M08		8.85	0.598	0.278	0.200	0.108
			01M09		9.50	0.571	0.354	0.253	0.154
			01M10		7.52	0.553	0.208	0.249	0.123
			Mean		9.16	0.597	0.301	0.222	0.128
	S.D.		1.09	0.059	0.044	0.030	0.013		
	Linalool oxide	80	02M01		9.72	0.556	0.345	0.208	0.137
			02M02		9.74	0.645	0.282	0.252	0.138
			02M03		14.08	0.779	0.455	0.314	0.159
			02M04		10.43	0.567	0.345	0.270	0.132
			02M05		14.53	0.706	0.297	0.228	0.121
			02M06		11.47	0.583	0.397	0.229	0.139
			02M07		10.43	0.479	0.307	0.192	0.099
			02M08		10.95	0.594	0.282	0.226	0.124
			02M09		11.97	0.587	0.258	0.208	0.109
			02M10		9.15	0.500	0.339	0.252	0.123
			Mean		11.25	0.600	0.331	0.238	0.128
	S.D.		1.82	0.090	0.060	0.036	0.017		
	Linalool oxide	250	03M01		15.68	0.807	0.345	0.278	0.123
			03M02		7.10	0.638	0.279	0.216	0.131
			03M03		9.35	0.601	0.312	0.240	0.125
			03M04		8.66	0.356	0.358	0.246	0.122
			03M05		10.24	0.734	0.314	0.245	0.137
			03M06		17.27	0.717	0.437	0.248	0.130
			03M07		10.73	0.609	0.297	0.228	0.117
			03M08		10.60	0.632	0.269	0.190	0.121
			03M09		11.65	0.592	0.343	0.264	0.144
03M10				9.01	0.610	0.363	0.236	0.129	
Mean				11.03	0.630	0.332	0.239	0.128	
S.D.		3.16	0.119	0.049	0.024	0.008			

Appendix 11 Organ to body weight ratio (g/100g B.W.) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Brain	Heart	Lungs	Liver	Kidneys	Spleen	Thymus	Pituitary (x10 ⁻³)	Thyroids (x10 ⁻³)		
Male	Linalool oxide	800	04M01		0.410	0.294	0.296	3.190	0.796	0.142	0.052	2.31	6.78		
			04M02		0.423	0.294	0.316	3.268	0.794	0.167	0.025	2.81	5.44		
			04M03		0.376	0.282	0.250	3.166	0.654	0.124	0.033	2.60	5.30		
			04M04		0.391	0.291	0.280	3.532	0.799	0.179	0.048	2.99	5.81		
			04M05		0.420	0.286	0.291	2.971	0.731	0.129	0.047	2.34	5.53		
			04M06		0.457	0.318	0.294	3.218	0.706	0.140	0.086	2.46	7.01		
			04M07		0.464	0.302	0.303	3.314	0.759	0.116	0.055	2.39	5.63		
			04M08		0.395	0.308	0.279	3.484	0.678	0.133	0.075	2.37	5.10		
			04M09		0.476	0.284	0.295	3.268	0.809	0.123	0.036	2.69	7.04		
			04M10		0.415	0.271	0.282	3.201	0.754	0.127	0.049	2.75	5.04		
			Mean				0.423	0.293	0.289	3.261	0.748	0.138	0.051	2.57	5.87
			S.D.				0.033	0.014	0.018	0.160	0.054	0.020	0.018	0.23	0.78

Appendix 11 Organ to body weight ratio (g/100g B.W.) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Adrenals (x10 ⁻³)	Testes	Prostate	Seminal vesicles	Salivary glands
Male	Linalool oxide	800	04M01		12.01	0.673	0.307	0.180	0.121
			04M02		13.74	0.743	0.300	0.241	0.150
			04M03		11.67	0.582	0.314	0.252	0.120
			04M04		12.09	0.636	0.333	0.240	0.133
			04M05		12.10	0.790	0.319	0.216	0.135
			04M06		11.75	0.650	0.313	0.176	0.136
			04M07		12.19	0.762	0.452	0.343	0.154
			04M08		11.05	0.552	0.256	0.173	0.139
			04M09		11.52	0.728	0.354	0.318	0.138
			04M10		9.36	0.693	0.308	0.227	0.132
			Mean		11.75	0.681	0.326	0.237	0.136
S.D.		1.09	0.078	0.051	0.057	0.011			

Appendix 11 Organ to body weight ratio (g/100g B.W.) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Brain	Heart	Lungs	Liver	Kidneys	Spleen	Thymus	Pituitary (x10 ⁻³)	Thyroids (x10 ⁻³)
Female	Control	0	01F01		0.515	0.280	0.320	2.426	0.489	0.160	0.078	4.65	5.27
			01F02		0.589	0.298	0.371	2.814	0.518	0.149	0.092	4.61	6.88
			01F03		0.640	0.319	0.387	2.530	0.605	0.183	0.107	5.56	6.72
			01F04		0.563	0.291	0.328	2.674	0.547	0.179	0.081	5.12	6.97
			01F05		0.630	0.291	0.375	2.591	0.631	0.154	0.094	4.07	6.74
			01F06		0.619	0.301	0.373	2.526	0.590	0.154	0.078	5.56	5.91
			01F07		0.672	0.331	0.363	2.633	0.645	0.159	0.088	5.49	5.10
			01F08		0.624	0.273	0.365	2.317	0.576	0.160	0.089	5.05	6.77
			01F09		0.642	0.331	0.383	2.624	0.688	0.180	0.095	6.12	6.09
			01F10		0.745	0.293	0.373	2.696	0.604	0.204	0.081	5.46	6.36
	Mean				0.624	0.301	0.364	2.583	0.589	0.168	0.088	5.17	6.28
	S.D.				0.062	0.020	0.022	0.141	0.060	0.017	0.009	0.60	0.67
	Linalool oxide	80	02F01		0.686	0.293	0.355	2.659	0.634	0.137	0.068	6.20	8.21
			02F02		0.582	0.349	0.364	2.727	0.519	0.140	0.061	5.44	5.79
			02F03		0.643	0.310	0.369	2.496	0.633	0.166	0.086	5.31	7.73
			02F04		0.542	0.298	0.329	2.692	0.562	0.143	0.082	4.55	4.47
			02F05		0.677	0.343	0.418	2.669	0.677	0.215	0.126	5.61	5.91
			02F06		0.612	0.285	0.336	2.944	0.588	0.171	0.062	7.78	7.40
			02F07		0.630	0.365	0.375	3.037	0.635	0.191	0.081	5.02	7.36
02F08				0.584	0.280	0.310	2.595	0.535	0.145	0.068	5.57	7.71	
02F09				0.698	0.321	0.383	2.828	0.692	0.212	0.078	4.84	6.09	
02F10				0.690	0.289	0.378	2.659	0.650	0.187	0.105	8.34	8.95	
Mean				0.634	0.313	0.362	2.731	0.613	0.171	0.082	5.87	6.96	
S.D.				0.054	0.030	0.031	0.163	0.059	0.030	0.020	1.25	1.35	
Linalool oxide	250	03F01		0.689	0.279	0.351	2.691	0.581	0.164	0.115	4.86	4.89	
		03F02		0.620	0.334	0.395	2.685	0.646	0.200	0.095	6.46	6.65	
		03F03		0.590	0.316	0.378	2.760	0.614	0.178	0.068	5.56	5.80	
		03F04		0.640	0.274	0.328	2.666	0.565	0.149	0.055	5.55	9.18	
		03F05		0.686	0.345	0.378	2.909	0.581	0.198	0.067	6.24	7.45	
		03F06		0.783	0.334	0.410	2.667	0.682	0.194	0.096	5.20	7.04	
		03F07		0.709	0.337	0.386	2.983	0.718	0.228	0.075	6.62	8.86	
		03F08		0.764	0.348	0.386	3.001	0.653	0.198	0.085	7.81	7.24	
		03F09		0.602	0.334	0.362	2.465	0.656	0.199	0.142	5.84	9.92	
		03F10		0.603	0.328	0.371	2.912	0.696	0.190	0.092	5.29	6.35	
		Mean				0.669	0.323	0.375	2.774	0.639	0.190	0.089	5.94
S.D.				0.069	0.026	0.023	0.172	0.052	0.022	0.026	0.87	1.57	

Appendix 11 Organ to body weight ratio (g/100g B.W.) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Adrenals (x10 ⁻³)	Ovaries (x10 ⁻³)	Uterus	Salivary glands		
Female	Control	0	01F01		15.11	35.82	0.139	0.135		
			01F02		18.42	38.77	0.163	0.174		
			01F03		20.18	37.94	0.160	0.182		
			01F04		15.32	33.12	0.166	0.146		
			01F05		18.17	37.48	0.150	0.125		
			01F06		20.04	33.07	0.129	0.172		
			01F07		20.70	41.12	0.184	0.119		
			01F08		17.33	31.84	0.137	0.134		
			01F09		30.35	43.99	0.180	0.156		
			01F10		20.71	45.96	0.379	0.158		
			Mean		19.63	37.91	0.179	0.150		
			S.D.		4.29	4.72	0.073	0.022		
			Linalool oxide	80	02F01		22.10	41.88	0.197	0.114
					02F02		18.69	37.98	0.137	0.154
02F03		20.67			34.17	0.164	0.136			
02F04		18.44			28.62	0.223	0.132			
02F05		23.25			44.14	0.280	0.139			
02F06		23.78			23.11	0.139	0.136			
02F07		23.91			43.99	0.196	0.166			
02F08		16.90			36.58	0.120	0.122			
02F09		18.97			41.18	0.345	0.178			
02F10		24.55			42.45	0.179	0.146			
Mean		21.13			37.41	0.198	0.142			
S.D.		2.75			7.00	0.070	0.019			
Linalool oxide	250	03F01				25.58	35.84	0.202	0.129	
		03F02				19.64	34.73	0.182	0.165	
		03F03		30.18	30.55	0.262	0.111			
		03F04		18.05	34.27	0.135	0.132			
		03F05		23.47	32.23	0.216	0.149			
		03F06		24.67	48.34	0.407	0.145			
		03F07		23.05	42.08	0.191	0.150			
		03F08		27.40	54.37	0.189	0.151			
		03F09		17.56	41.21	0.122	0.121			
		03F10		24.67	56.48	0.128	0.153			
		Mean		23.43	41.01	0.203	0.141			
		S.D.		4.04	9.25	0.084	0.017			

Appendix 11 Organ to body weight ratio (g/100g B.W.) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Brain	Heart	Lungs	Liver	Kidneys	Spleen	Thymus	Pituitary (x10 ⁻³)	Thyroids (x10 ⁻³)
Female	Linalool oxide	800	04F01		0.670	0.284	0.387	2.990	0.591	0.202	0.105	4.57	6.87
			04F02		0.730	0.324	0.353	3.590	0.714	0.181	0.079	5.88	6.93
			04F03		0.612	0.298	0.384	3.141	0.636	0.165	0.081	5.93	6.77
			04F04		0.759	0.342	0.427	3.292	0.674	0.201	0.119	5.72	7.79
			04F05		0.644	0.341	0.340	3.682	0.675	0.188	0.078	6.85	7.04
			04F06		0.666	0.333	0.346	3.391	0.597	0.190	0.073	5.24	5.65
			04F07		0.704	0.360	0.391	3.563	0.782	0.170	0.076	6.36	9.67
			04F08		0.698	0.346	0.384	3.580	0.740	0.201	0.090	5.12	7.85
			04F09		0.673	0.365	0.454	3.416	0.778	0.163	0.100	5.97	9.78
			04F10		0.679	0.349	0.392	3.961	0.775	0.157	0.091	7.14	6.32
						Mean		0.684	0.334	0.386	3.461	0.696	0.182
			S.D.		0.042	0.026	0.035	0.279	0.073	0.017	0.015	0.78	1.35

Appendix 11 Organ to body weight ratio (g/100g B.W.) - Individual values (Continued)

Sex	Test article	Dose (mg/kg/day)	Animal number	Mode of death(day)	Adrenals (x10 ⁻³)	Ovaries (x10 ⁻³)	Uterus	Salivary glands
Female	Linalool oxide	800	04F01		22.73	34.31	0.287	0.134
			04F02		30.23	37.93	0.364	0.165
			04F03		20.52	37.11	0.158	0.155
			04F04		32.92	33.92	0.239	0.151
			04F05		34.74	26.17	0.214	0.157
			04F06		21.37	29.93	0.145	0.131
			04F07		25.37	38.06	0.226	0.144
			04F08		23.99	39.51	0.171	0.152
			04F09		24.43	49.10	0.193	0.165
			04F10		23.60	34.08	0.185	0.189
			Mean		25.99	36.01	0.218	0.154
S.D.		4.91	6.12	0.066	0.017			

Appendix 12 Histopathological findings - Individual values



Sex : Male	Test article : Control	Animal number : 01M01
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Mononuclear infiltrate/fibrosis, myocardium/(2)	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Cyst, pars nervosa	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(1)	
Kidney	Accumulation, hyaline droplets/(1)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Normal	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Control	Animal number : 01M02
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(1)	
Kidney	Accumulation, hyaline droplets/(1)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Normal	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Male	Test article : Control	Animal number : 01M03
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Mononuclear infiltrate/fibrosis, myocardium/(1)	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Normal	
Kidney	Accumulation, hyaline droplets/(1)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Inflammation/(2)	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male Test article : Control Animal number : 01M04
 Fate : Terminal sacrifice Dose(mg/kg/day) : 0

Organ	Histopathological findings
Heart	Normal
Aorta	Normal
Mandibular lymph node	Normal
Mesenteric lymph node	Normal
Spleen	Accessory spleen
Bone marrow	Normal
Thymus	Normal
Pituitary	Normal
Thyroid	Normal
Parathyroid	Normal
Adrenal	Normal
Nasal cavity	Normal
Trachea	Normal
Lung/bronchial	Normal
Tongue	Normal
Salivary gland	Normal
Esophagus	Normal
Stomach	Cyst, glandular/(1)
Duodenum	Normal
Jejunum	Normal
Ileum	Normal
Cecum	Normal
Colon	Normal
Rectum	Normal
Pancreas	Normal
Liver	Normal
Kidney	Accumulation, hyaline droplets/(2)
Urinary bladder	Normal
Testis	Normal
Prostate	Normal
Epididymis	Normal
Seminal vesicle	Normal
Mammary gland	Normal
Femur	Normal
Sternum	Normal
Musculature	Normal
Skin/subcutis	Normal
Zymbal's gland	Normal
Eye	Normal
Harderian gland	Normal
Brain	Normal
Spinal cord	Normal
Sciatic nerve	Normal

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Male	Test article : Control	Animal number : 01M05
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Vacuolization, cytoplasmic, cortex/(2)	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(2)	
Kidney	Accumulation, hyaline droplets/(1)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Normal	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Male	Test article : Control	Animal number : 01M06
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Cyst, pars intermedia	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(2)	
Kidney	Accumulation, hyaline droplets/(1)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Infiltrate, lymphocytic/(2)	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Male	Test article : Control	Animal number : 01M07
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Cyst, pars nervosa, multiple	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Vacuolization, cytoplasmic, cortex/(2)	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(2)	
Kidney	Accumulation, hyaline droplets/(1)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Infiltrate, lymphocytic/(1)	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Control	Animal number : 01M08
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Vacuolization, cytoplasmic, cortex/(2)	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Ectopic tissue, parotid gland	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Infiltration, mononuclear/(1)	
Kidney	Accumulation, hyaline droplets/(1)	
	Cyst/(2)	
	Tubule basophilia/(1)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Normal	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Male	Test article : Control	Animal number : 01M09
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Alveolar macrophage aggregation/(1)	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Diverticulum	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(2)	
Kidney	Accumulation, hyaline droplets/(1)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Normal	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Male	Test article : Control	Animal number : 01M10
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Mononuclear infiltrate/fibrosis, myocardium/(2)	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Lymphocyte rich lymph vessels/(1)	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(1)	
Kidney	Accumulation, hyaline droplets/(1)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Infiltrate, lymphocytic/(2)	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 02M01
Fate : Terminal sacrifice	Dose(mg/kg/day) : 80	
Organ	Histopathological findings	
Thyroid	Cyst, congenital	
Parathyroid	Normal	
Adrenal	Vacuolization, cytoplasmic, cortex/(2)	
Liver	Normal	
Kidney	Accumulation, hyaline droplets/(3)	
	Cast, granular/(2)	
	Tubule basophilia/(2)	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 02M03
Fate : Terminal sacrifice	Dose(mg/kg/day) : 80	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Vacuolization, cytoplasmic, cortex/(2)	
Liver	Normal	
Kidney	Accumulation, hyaline droplets/(2) Tubule basophilia/(1)	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male Test article : Linalool oxide Animal number : 02M04
Fate : Terminal sacrifice Dose(mg/kg/day) : 80

Organ	Histopathological findings
Thyroid	Normal
Parathyroid	Normal
Adrenal	Normal
Liver	Fatty change, microvesicular, periportal/(2)
Kidney	Accumulation, hyaline droplets/(3) Cast, granular/(2) Tubule basophilia/(2)

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 02M05
Fate : Terminal sacrifice	Dose(mg/kg/day) : 80	
Organ	Histopathological findings	
Thyroid	Cyst, congenital	
Parathyroid	Normal	
Adrenal	Vacuolization, cytoplasmic, cortex/(2)	
Liver	Fatty change, macrovesicular, periportal/(2)	
Kidney	Accumulation, hyaline droplets/(2)	
	Cast, hyaline, pelvis/(2)	
Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe		

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 02M06
Fate : Terminal sacrifice	Dose(mg/kg/day) : 80	
Organ	Histopathological findings	
Thyroid	Cyst, congenital	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Fatty change, microvesicular, periportal/(2)	
Kidney	Accumulation, hyaline droplets/(2)	
	Cast, granular/(1)	
	Tubule basophilia/(1)	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)




Sex : Male Test article : Linalool oxide Animal number : 02M07

Fate : Terminal sacrifice Dose(mg/kg/day) : 80

Organ	Histopathological findings
Thyroid	Normal
Parathyroid	Normal
Adrenal	Normal
Liver	Fatty change, macrovesicular, periportal/(2)
Kidney	Accumulation, hyaline droplets/(3) Cast, granular/(2) Tubule basophilia/(2)

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 02M08
Fate : Terminal sacrifice	Dose(mg/kg/day) : 80	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Vacuolization, cytoplasmic, cortex/(2)	
Liver	Normal	
Kidney	Accumulation, hyaline droplets/(2) Tubule basophilia/(1)	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 02M09
Fate : Terminal sacrifice	Dose(mg/kg/day) : 80	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Fatty change, microvesicular, periportal/(1)	
Kidney	Accumulation, hyaline droplets/(2)	
	Tubule basophilia/(1)	
Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe		

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 02M10
Fate : Terminal sacrifice	Dose(mg/kg/day) : 80	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Fatty change, microvesicular, periportal/(2)	
Kidney	Accumulation, hyaline droplets/(2)	
	Cast, granular/(1)	
	Dilatation, pelvis/(2)	
	Tubule basophilia/(1)	
Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe		

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 03M01
Fate : Terminal sacrifice	Dose(mg/kg/day) : 250	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Normal	
Kidney	Accumulation, hyaline droplets/(3) Cast, granular/(2) Tubule basophilia/(2)	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 03M02
Fate : Terminal sacrifice	Dose(mg/kg/day) : 250	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Normal	
Kidney	Accumulation, hyaline droplets/(2)	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 03M03
Fate : Terminal sacrifice	Dose(mg/kg/day) : 250	
Organ	Histopathological findings	
Thyroid	Cyst, congenital	
Parathyroid	Not examined	
Adrenal	Vacuolization, cytoplasmic, cortex/(2)	
Liver	Normal	
Kidney	Accumulation, hyaline droplets/(2) Tubule basophilia/(1)	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 03M04
Fate : Terminal sacrifice	Dose(mg/kg/day) : 250	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Syncytial giant cell	
Adrenal	Normal	
Liver	Fatty change, microvesicular, periportal/(2) Infiltration, mononuclear/(1)	
Kidney	Accumulation, hyaline droplets/(2) Cast, granular/(1) Tubule basophilia/(1)	
Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe		

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 03M05
Fate : Terminal sacrifice	Dose(mg/kg/day) : 250	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Vacuolization, cytoplasmic, cortex/(2)	
Liver	Normal	
Kidney	Accumulation, hyaline droplets/(2)	
	Cast, granular/(1)	
	Tubule basophilia/(1)	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 03M06
Fate : Terminal sacrifice	Dose(mg/kg/day) : 250	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Syncytial giant cell	
Adrenal	Vacuolization, cytoplasmic, cortex/(2)	
Liver	Tension lipodosis/(2)	
Kidney	Accumulation, hyaline droplets/(2)	
	Microabscess, renal papilla/(2)	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 03M07
Fate : Terminal sacrifice	Dose(mg/kg/day) : 250	
Organ	Histopathological findings	
Thyroid	Cyst, congenital	
Parathyroid	Normal	
Adrenal	Vacuolization, cytoplasmic, cortex/(2)	
Liver	Normal	
Kidney	Accumulation, hyaline droplets/(1)	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe



Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Male	Test article : Linalool oxide	Animal number : 03M08
Fate : Terminal sacrifice	Dose(mg/kg/day) : 250	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Vacuolization, cytoplasmic, cortex/(2)	
Liver	Normal	
Kidney	Accumulation, hyaline droplets/(2) Tubule basophilia/(1)	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male Test article : Linalool oxide Animal number : 03M09
Fate : Terminal sacrifice Dose(mg/kg/day) : 250

Organ	Histopathological findings
Thyroid	Normal
Parathyroid	Normal
Adrenal	Normal
Liver	Fatty change, microvesicular, periportal/(2)
Kidney	Accumulation, hyaline droplets/(3) Cast, granular/(2) Tubule basophilia/(2)

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 03M10
Fate : Terminal sacrifice	Dose(mg/kg/day) : 250	
Organ	Histopathological findings	
Thyroid	Ectopic thymic tissue	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Fatty change, microvesicular, periportal/(1)	
Kidney	Accumulation, hyaline droplets/(3)	
	Cast, granular/(2)	
	Tubule basophilia/(2)	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Male	Test article : Linalool oxide	Animal number : 04M01
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Erosion, glandular/(2)	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(2) Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Accumulation, hyaline droplets/(3) Cast, granular/(3) Tubule basophilia/(2)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Normal	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 04M02
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Autophagic vacuoles, acinar cell/(1) Infiltrate, mononuclear cell/(1)	
Liver	Fatty change, microvesicular, periportal/(2) Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Accumulation, hyaline droplets/(3) Cast, granular/(2) Tubule basophilia/(2)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Normal	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 04M03
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(1) Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Accumulation, hyaline droplets/(1) Dilatation, tubule/(1)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Normal	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Male	Test article : Linalool oxide	Animal number : 04M04
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Vacuolization, cytoplasmic, cortex/(2)	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Accumulation, hyaline droplets/(3) Cast, granular/(1) Tubule basophilia/(2)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Normal	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 04M05
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Hyperplasia, follicular cell, focal/(1)	
Parathyroid	Normal	
Adrenal	Vacuolization, cytoplasmic, cortex/(2)	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(1) Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Accumulation, hyaline droplets/(2)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Normal	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Male	Test article : Linalool oxide	Animal number : 04M06
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Cyst, congenital Ectopic thymic tissue	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Accumulation, hyaline droplets/(2)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Normal	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 04M07
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Accumulation, hyaline droplets/(2) Tubule basophilia/(1)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Normal	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Male	Test article : Linalool oxide	Animal number : 04M08
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Cyst, congenital	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Erosion, glandular/(2)	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Fibrosis, pancreatic islet/(1)	
Liver	Fatty change, microvesicular, periportal/(2) Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Accumulation, hyaline droplets/(2) Tubule basophilia/(1)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Normal	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Male	Test article : Linalool oxide	Animal number : 04M09
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Accumulation, hyaline droplets/(3) Cast, granular/(2) Tubule basophilia/(2)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Normal	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Male	Test article : Linalool oxide	Animal number : 04M10
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(2) Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Accumulation, hyaline droplets/(2) Tubule basophilia/(1)	
Urinary bladder	Normal	
Testis	Normal	
Prostate	Normal	
Epididymis	Normal	
Seminal vesicle	Normal	
Mammary gland	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Control	Animal number : 01F01
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Normal	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Normal	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Female	Test article : Control	Animal number : 01F02
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Cyst, congenital Inflammation, acute/(1)	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Infiltration, mononuclear/(1) Tension lipidosis/(2)	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Normal	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Female	Test article : Control	Animal number : 01F03
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Normal	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Normal	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Female	Test article : Control	Animal number : 01F04
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Normal	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Normal	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Female	Test article : Control	Animal number : 01F05
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, macrovesicular, periportal/(1)	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Normal	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Control	Animal number : 01F06
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Normal	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Normal	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Control	Animal number : 01F07
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Infiltration, mononuclear/(1)	
Kidney	Mineralization, cortico-medullary junction/(1)	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Normal	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Female	Test article : Control	Animal number : 01F08
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Ectopic thymic tissue	
Parathyroid	Syncytial giant cell	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Autophagic vacuoles, acinar cell/(1)	
Liver	Normal	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Normal	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female Test article : Control Animal number : 01F09
 Fate : Terminal sacrifice Dose(mg/kg/day) : 0

Organ	Histopathological findings
Heart	Normal
Aorta	Normal
Mandibular lymph node	Normal
Mesenteric lymph node	Normal
Spleen	Normal
Bone marrow	Normal
Thymus	Normal
Pituitary	Normal
Thyroid	Ectopic thymic tissue
Parathyroid	Normal
Adrenal	Normal
Nasal cavity	Normal
Trachea	Normal
Lung/bronchial	Normal
Tongue	Normal
Salivary gland	Normal
Esophagus	Normal
Stomach	Normal
Duodenum	Normal
Jejunum	Normal
Ileum	Normal
Cecum	Normal
Colon	Normal
Rectum	Normal
Pancreas	Normal
Liver	Fatty change, microvesicular, periportal/(1) Infiltration, mononuclear/(1) Necrosis, focal/(2) Tension lipidosi/(2)
Kidney	Normal
Urinary bladder	Normal
Mammary gland	Normal
Ovary	Normal
Oviduct	Normal
Uterus	Normal
Vagina	Normal
Femur	Normal
Sternum	Normal
Musculature	Normal
Skin/subcutis	Normal
Zymbal's gland	Normal
Eye	Normal
Harderian gland	Normal
Brain	Normal
Spinal cord	Normal
Sciatic nerve	Normal

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Control	Animal number : 01F10
Fate : Terminal sacrifice	Dose(mg/kg/day) : 0	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Normal	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Cyst, paraovarian/(2)	
Oviduct	Normal	
Uterus	Dilatation, luminal/(2)	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Linalool oxide	Animal number : 02F01
Fate : Terminal sacrifice	Dose(mg/kg/day) : 80	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Tension lipidosi(2)	
Kidney	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Linalool oxide	Animal number : 02F02
Fate : Terminal sacrifice	Dose(mg/kg/day) : 80	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Normal	
Kidney	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Linalool oxide	Animal number : 02F03
Fate : Terminal sacrifice	Dose(mg/kg/day) : 80	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Fatty change, macrovesicular, periportal/(2)	
Kidney	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female Test article : Linalool oxide Animal number : 02F04
Fate : Terminal sacrifice Dose(mg/kg/day) : 80

Organ	Histopathological findings
Thyroid	Normal
Parathyroid	Normal
Adrenal	Normal
Liver	Normal
Kidney	Normal

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Linalool oxide	Animal number : 02F05
Fate : Terminal sacrifice	Dose(mg/kg/day) : 80	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Syncytial giant cell	
Adrenal	Normal	
Liver	Fatty change, microvesicular, periportal/(2)	
Kidney	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Linalool oxide	Animal number : 02F06
Fate : Terminal sacrifice	Dose(mg/kg/day) : 80	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Fatty change, microvesicular, periportal/(1)	
Kidney	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Linalool oxide	Animal number : 02F07
Fate : Terminal sacrifice	Dose(mg/kg/day) : 80	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Normal	
Kidney	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Linalool oxide	Animal number : 02F08
Fate : Terminal sacrifice	Dose(mg/kg/day) : 80	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Normal	
Kidney	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Linalool oxide	Animal number : 02F09
Fate : Terminal sacrifice	Dose(mg/kg/day) : 80	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Necrosis, focal/(1)	
Kidney	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Linalool oxide	Animal number : 02F10
Fate : Terminal sacrifice	Dose(mg/kg/day) : 80	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Normal	
Kidney	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female Test article : Linalool oxide Animal number : 03F01
Fate : Terminal sacrifice Dose(mg/kg/day) : 250

Organ	Histopathological findings
Thyroid	Normal
Parathyroid	Normal
Adrenal	Normal
Liver	Fatty change, microvesicular, periportal/(2)
Kidney	Normal

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female Test article : Linalool oxide Animal number : 03F02
Fate : Terminal sacrifice Dose(mg/kg/day) : 250

Organ	Histopathological findings
Thyroid	Cyst, congenital
Parathyroid	Normal
Adrenal	Normal
Liver	Normal
Kidney	Normal

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female Test article : Linalool oxide Animal number : 03F03

Fate : Terminal sacrifice Dose(mg/kg/day) : 250

Organ	Histopathological findings
Thyroid	Normal
Parathyroid	Normal
Adrenal	Normal
Liver	Fatty change, macrovesicular, periportal/(2)
Kidney	Normal

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Linalool oxide	Animal number : 03F04
Fate : Terminal sacrifice	Dose(mg/kg/day) : 250	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Fatty change, microvesicular, periportal/(1)	
Kidney	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female Test article : Linalool oxide Animal number : 03F05
Fate : Terminal sacrifice Dose(mg/kg/day) : 250

Organ	Histopathological findings
Thyroid	Normal
Parathyroid	Normal
Adrenal	Normal
Liver	Normal
Kidney	Normal

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female Test article : Linalool oxide Animal number : 03F06

Fate : Terminal sacrifice Dose(mg/kg/day) : 250

Organ	Histopathological findings
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Thyroid	Cyst, congenital
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Parathyroid	Normal
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Adrenal	Normal
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Liver	Normal
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Kidney	Normal
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Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female Test article : Linalool oxide Animal number : 03F07
Fate : Terminal sacrifice Dose(mg/kg/day) : 250

Organ	Histopathological findings
Thyroid	Normal
Parathyroid	Normal
Adrenal	Normal
Liver	Normal
Kidney	Normal

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Linalool oxide	Animal number : 03F08
Fate : Terminal sacrifice	Dose(mg/kg/day) : 250	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Tension lipidosis/(2)	
Kidney	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Linalool oxide	Animal number : 03F09
Fate : Terminal sacrifice	Dose(mg/kg/day) : 250	
Organ	Histopathological findings	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Liver	Fatty change, macrovesicular, periportal/(2)	
Kidney	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

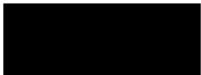


Sex : Female Test article : Linalool oxide Animal number : 03F10
Fate : Terminal sacrifice Dose(mg/kg/day) : 250

Organ	Histopathological findings
Thyroid	Normal
Parathyroid	Normal
Adrenal	Normal
Liver	Fatty change, microvesicular, periportal/(1) Infiltration, mononuclear/(1)
Kidney	Normal

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Linalool oxide	Animal number : 04F01
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(2) Hypertrophy, hepatocellular, centrilobular/(2) Tension lipidosis/(1)	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Dilatation, luminal/(2)	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Female	Test article : Linalool oxide	Animal number : 04F02
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(1) Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Dilatation, luminal/(2)	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Female	Test article : Linalool oxide	Animal number : 04F03
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Accessory adrenocortical tissue	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(2) Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Normal	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Female	Test article : Linalool oxide	Animal number : 04F04
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(1) Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Normal	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Female	Test article : Linalool oxide	Animal number : 04F05
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Normal	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Female	Test article : Linalool oxide	Animal number : 04F06
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(1) Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Normal	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Female	Test article : Linalool oxide	Animal number : 04F07
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Cyst, congenital	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, microvesicular, periportal/(1) Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Normal	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)



Sex : Female	Test article : Linalool oxide	Animal number : 04F08
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Infiltrate, mononuclear cell/(1)	
Liver	Hypertrophy, hepatocellular, centrilobular/(2) Infiltration, mononuclear/(1)	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Cyst, corpus luteum/(2)	
Oviduct	Normal	
Uterus	Normal	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Female	Test article : Linalool oxide	Animal number : 04F09
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Normal	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Normal	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Normal	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe

Appendix 12 Histopathological findings - Individual values (Continued)

Sex : Female	Test article : Linalool oxide	Animal number : 04F10
Fate : Terminal sacrifice	Dose(mg/kg/day) : 800	
Organ	Histopathological findings	
Heart	Normal	
Aorta	Normal	
Mandibular lymph node	Normal	
Mesenteric lymph node	Normal	
Spleen	Normal	
Bone marrow	Normal	
Thymus	Normal	
Pituitary	Cyst, pars nervosa, multiple Dilatation, Rathke's cleft	
Thyroid	Normal	
Parathyroid	Normal	
Adrenal	Normal	
Nasal cavity	Inflammation, nasolacrimal duct/(2)	
Trachea	Normal	
Lung/bronchial	Normal	
Tongue	Normal	
Salivary gland	Normal	
Esophagus	Normal	
Stomach	Normal	
Duodenum	Normal	
Jejunum	Normal	
Ileum	Normal	
Cecum	Normal	
Colon	Normal	
Rectum	Normal	
Pancreas	Normal	
Liver	Fatty change, macrovesicular, periportal/(2) Hypertrophy, hepatocellular, centrilobular/(2)	
Kidney	Normal	
Urinary bladder	Normal	
Mammary gland	Normal	
Ovary	Normal	
Oviduct	Normal	
Uterus	Normal	
Vagina	Normal	
Femur	Normal	
Sternum	Normal	
Musculature	Normal	
Skin/subcutis	Normal	
Zymbal's gland	Normal	
Eye	Normal	
Harderian gland	Normal	
Brain	Normal	
Spinal cord	Normal	
Sciatic nerve	Normal	

Numbers in parenthesis indicate the grades of lesion : (1) Minimal (2) Slight (3) Moderate (4) Marked (5) Severe


Appendix 13 Immunohistochemical finding - Individual data

Sex	Test article	Dose (mg/kg/day)	Animal number	Kidney/Accumulation of alpha2u-globulin
Male	Control	0	01M01	1+
			01M02	1+
			01M03	1+
			01M04	2+
			01M05	1+
			01M06	1+
			01M07	1+
			01M08	1+
			01M09	1+
			01M10	1+
	Linalool oxide	80	02M01	3+
			02M02	2+
			02M03	2+
			02M04	3+
			02M05	2+
			02M06	2+
			02M07	3+
			02M08	2+
			02M09	2+
			02M10	2+
	Linalool oxide	250	03M01	3+
			03M02	2+
			03M03	2+
			03M04	2+
			03M05	2+
			03M06	2+
			03M07	1+
			03M08	2+
			03M09	3+
			03M10	3+
	Linalool oxide	800	04M01	3+
			04M02	3+
			04M03	1+
			04M04	3+
			04M05	2+
			04M06	2+
			04M07	2+
			04M08	2+
			04M09	3+
			04M10	2+

Grades of positive droplets: -, negative, 1+; minimal, 2+; slight, 3+; moderate.

11 添付資料

11.1 床敷中汚染物質分析試験成績書

試験番号： 

11 添付資料

11.2 飼料中汚染物質分析試験成績書

11 添付資料

11.3 飲料水試験検査成績書



12 信頼性保証陳述書

信頼性保証陳述書

試験名 指定添加物（香料）の安全性に関する試験（リナロールオキシドに関する
90日間反復投与毒性試験）

試験番号

本試験は医薬品、医療機器等の品質、有効性及び安全性の確保等に関する法律施行規則第43条「申請資料の信頼性の基準」及び当施設の信頼性保証部門に関する標準操作手順書（SOP）に従って下記の調査を実施しました。その結果、試験計画書及びSOPに従って試験が適正に実施されており、最終報告書には試験した方法、手順が正確に記載され、かつ試験の生データを正確に反映していることを認めます。

調査の内容	QAU 調査日	運営管理者並びに 試験責任者への報告日
試験計画書 変更書 01 変更書 02 変更書 03		
被験物質に関する記録 被験物質の調製・サンプリング		
帳票の確認		
帳票の再確認		
記録類		
記録類の再調査		
最終報告書草稿		
最終報告書		

