

**Experiment Number:** 56348-02  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

**Test Compound:** Citral  
**CAS Number:** 5392-40-5

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 05:29:26  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>C Number:</b>	C56348A
<b>Lock Date:</b>	01/02/1996
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

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**First Dose M/F:** NA / NA  
**Lab:** BAT

**Male MOUSE**  
**FIRST TERMINAL SACRIFICE AT 93 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

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<b>DOSE = UNTREAT CONTROL</b>			
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			
<hr/>			
<b>DOSE = VEHICLE CONTROL</b>			
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			
<hr/>			
<b>DOSE = 3900 PPM</b>			
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			
<hr/>			
<b>DOSE = 7800 PPM</b>			
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

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**First Dose M/F:** NA / NA  
**Lab:** BAT

**Male MOUSE**  
**FIRST TERMINAL SACRIFICE AT 93 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

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**DOSE = 15600 PPM**

TOTAL 10                      UNCENSORED DEATHS 0                      CENSORED DEATHS 0                      TERMINAL 10

**UNCENSORED DEATH DAYS**

none

**CENSORED DEATH DAYS**

none

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**DOSE = 31300 PPM**

TOTAL 10                      UNCENSORED DEATHS 4                      CENSORED DEATHS 0                      TERMINAL 6

**UNCENSORED DEATH DAYS**

10            10            10            14

**CENSORED DEATH DAYS**

none

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

**Experiment Number:** 56348-02  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

**Test Compound:** Citral  
**CAS Number:** 5392-40-5

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 05:29:26  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**Male MOUSE  
FIRST TERMINAL SACRIFICE AT 93 DAYS**

**KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)**

DOSE	TIME (DAYS)									
	10	20	30	40	50	60	70	80	90	93(A)
<b>UNTREAT CONTROL</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>VEHICLE CONTROL</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>3900 PPM</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>7800 PPM</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>15600 PPM</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>31300 PPM</b>	70.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

**Experiment Number:** 56348-02  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

**Test Compound:** Citral  
**CAS Number:** 5392-40-5

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 05:29:26  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**Male MOUSE**  
**FIRST TERMINAL SACRIFICE AT 93 DAYS**

**SURVIVAL SUMMARY STATISTICS**

DOSE	UNTREAT CONTROL	VEHICLE CONTROL	3900 PPM	7800 PPM
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	100.0%	100.0%	100.0%	100.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.000	-----	-----	-----
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	.	.	.	.
	(.)	(.)	(.)	(.)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	93.0	93.0	93.0	93.0
	(0.0)	(0.0)	(0.0)	(0.0)

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

**Experiment Number:** 56348-02  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

**Test Compound:** Citral  
**CAS Number:** 5392-40-5

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 05:29:26  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**Male MOUSE  
FIRST TERMINAL SACRIFICE AT 93 DAYS**

**SURVIVAL SUMMARY STATISTICS**

<b>DOSE</b>	<b>15600 PPM</b>	<b>31300 PPM</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	100.0%	60.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	-----	P=0.097
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	. (.)	11.0 (1.0)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	93.0 (0.0)	60.2 (13.4)

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

**Experiment Number:** 56348-02  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

**Test Compound:** Citral  
**CAS Number:** 5392-40-5

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 05:29:26  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**Female MOUSE**  
**FIRST TERMINAL SACRIFICE AT 93 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

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<b>DOSE = UNTREAT CONTROL</b>			
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			

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<b>DOSE = VEHICLE CONTROL</b>			
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			

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<b>DOSE = 3900 PPM</b>			
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			

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<b>DOSE = 7800 PPM</b>			
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

**Experiment Number:** 56348-02  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

**Test Compound:** Citral  
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**First Dose M/F:** NA / NA  
**Lab:** BAT

**Female MOUSE**  
**FIRST TERMINAL SACRIFICE AT 93 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

---

**DOSE = 15600 PPM**

TOTAL 10                      UNCENSORED DEATHS 0                      CENSORED DEATHS 0                      TERMINAL 10

**UNCENSORED DEATH DAYS**

none

**CENSORED DEATH DAYS**

none

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**DOSE = 31300 PPM**

TOTAL 10                      UNCENSORED DEATHS 0                      CENSORED DEATHS 0                      TERMINAL 10

**UNCENSORED DEATH DAYS**

none

**CENSORED DEATH DAYS**

none

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**Lab:** BAT

**Female MOUSE  
FIRST TERMINAL SACRIFICE AT 93 DAYS**

**KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)**

DOSE	TIME (DAYS)									
	10	20	30	40	50	60	70	80	90	93(A)
UNTREAT CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
VEHICLE CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
3900 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
7800 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
15600 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
31300 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(A) FIRST TERMINAL SACRIFICE

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**First Dose M/F:** NA / NA  
**Lab:** BAT

Female MOUSE  
 FIRST TERMINAL SACRIFICE AT 93 DAYS

**SURVIVAL SUMMARY STATISTICS**

DOSE	UNTREAT CONTROL	VEHICLE CONTROL	3900 PPM	7800 PPM
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	100.0%	100.0%	100.0%	100.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	-----	-----	-----	-----
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	. (.)	. (.)	. (.)	. (.)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	93.0 (0.0)	93.0 (0.0)	93.0 (0.0)	93.0 (0.0)

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST (TARONE, 1975) RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS (COX, 1972). NEGATIVE TRENDS ARE INDICATED BY "N".

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**First Dose M/F:** NA / NA  
**Lab:** BAT

**Female MOUSE  
FIRST TERMINAL SACRIFICE AT 93 DAYS**

**SURVIVAL SUMMARY STATISTICS**

<b>DOSE</b>	<b>15600 PPM</b>	<b>31300 PPM</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	100.0%	100.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	-----	-----
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	. (.)	. (.)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	93.0 (0.0)	93.0 (0.0)

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**Route:** DOSED FEED

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**Test Compound:** Citral

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**First Dose M/F:** NA / NA

**Lab:** BAT

**\*\* END OF REPORT \*\***

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