

**Experiment Number:** 02200-04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

**Test Compound:** Styrene

**CAS Number:** 100-42-5

**Date Report Requested:** 10/18/2014

**Time Report Requested:** 15:25:02

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

**Lab:** BNW

<b>C Number:</b>	C02200B
<b>Lock Date:</b>	05/26/1992
<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: BNW

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

---

DOSE = CONTROL

TOTAL 10                      UNCENSORED DEATHS 0                      CENSORED DEATHS 0                      TERMINAL 10

UNCENSORED DEATH DAYS

none

CENSORED DEATH DAYS

none

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DOSE = 62.5 PPM

TOTAL 10                      UNCENSORED DEATHS 0                      CENSORED DEATHS 0                      TERMINAL 10

UNCENSORED DEATH DAYS

none

CENSORED DEATH DAYS

none

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DOSE = 125 PPM

TOTAL 10                      UNCENSORED DEATHS 0                      CENSORED DEATHS 0                      TERMINAL 10

UNCENSORED DEATH DAYS

none

CENSORED DEATH DAYS

none

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DOSE = 250 PPM

TOTAL 10                      UNCENSORED DEATHS 6                      CENSORED DEATHS 0                      TERMINAL 4

UNCENSORED DEATH DAYS

3            3            3            3            3            3

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)

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

**Lab:** BNW

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

---

**DOSE = 500 PPM**

TOTAL 10

UNCENSORED DEATHS 0

CENSORED DEATHS 0

TERMINAL 10

**UNCENSORED DEATH DAYS**

none

**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)

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

**Lab:** BNW

**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>CONTROL</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>62.5 PPM</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>125 PPM</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
<b>250 PPM</b>	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
<b>500 PPM</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

(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: 02200-04

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Species/Strain: Mouse/B6C3F1

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:25:02

First Dose M/F: NA / NA

Lab: BNW

Male MOUSE  
FIRST TERMINAL SACRIFICE AT 93 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	62.5 PPM	125 PPM	250 PPM
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	100.0%	100.0%	100.0%	40.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.542	-----	-----	P=0.017
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	.	.	.	3.0
	(.)	(.)	(.)	(.)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	93.0	93.0	93.0	39.0
	(0.0)	(0.0)	(0.0)	(14.7)

(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:** 02200-04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

**Test Compound:** Styrene

**CAS Number:** 100-42-5

**Date Report Requested:** 10/18/2014

**Time Report Requested:** 15:25:02

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

**Lab:** BNW

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

**SURVIVAL SUMMARY STATISTICS**

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<b>DOSE</b>	<b>500 PPM</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	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)

(A) FIRST TERMINAL SACRIFICE

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

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

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Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:25:02

First Dose M/F: NA / NA

Lab: BNW

Female MOUSE  
FIRST TERMINAL SACRIFICE AT 94 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

---

**DOSE = CONTROL**

TOTAL 10                      UNCENSORED DEATHS 0                      CENSORED DEATHS 0                      TERMINAL 10

**UNCENSORED DEATH DAYS**

none

**CENSORED DEATH DAYS**

none

---

**DOSE = 62.5 PPM**

TOTAL 10                      UNCENSORED DEATHS 0                      CENSORED DEATHS 0                      TERMINAL 10

**UNCENSORED DEATH DAYS**

none

**CENSORED DEATH DAYS**

none

---

**DOSE = 125 PPM**

TOTAL 10                      UNCENSORED DEATHS 0                      CENSORED DEATHS 0                      TERMINAL 10

**UNCENSORED DEATH DAYS**

none

**CENSORED DEATH DAYS**

none

---

**DOSE = 250 PPM**

TOTAL 10                      UNCENSORED DEATHS 0                      CENSORED DEATHS 0                      TERMINAL 10

**UNCENSORED DEATH DAYS**

none

**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:** 02200-04

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

**Test Compound:** Styrene

**CAS Number:** 100-42-5

**Date Report Requested:** 10/18/2014

**Time Report Requested:** 15:25:02

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

**Lab:** BNW

**Female MOUSE  
FIRST TERMINAL SACRIFICE AT 94 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)**

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**DOSE = 500 PPM**

TOTAL 10

UNCENSORED DEATHS 0

CENSORED DEATHS 0

TERMINAL 10

**UNCENSORED DEATH DAYS**

none

**CENSORED DEATH DAYS**

none

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Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Styrene

CAS Number: 100-42-5

Date Report Requested: 10/18/2014

Time Report Requested: 15:25:02

First Dose M/F: NA / NA

Lab: BNW

Female MOUSE  
FIRST TERMINAL SACRIFICE AT 94 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	10	20	30	40	50	60	70	80	90	94(A)
CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
62.5 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
125 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
250 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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First Dose M/F: NA / NA

Lab: BNW

Female MOUSE  
FIRST TERMINAL SACRIFICE AT 94 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	62.5 PPM	125 PPM	250 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)	94.0 (0.0)	94.0 (0.0)	94.0 (0.0)	94.0 (0.0)

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

**Lab:** BNW

**Female MOUSE  
FIRST TERMINAL SACRIFICE AT 94 DAYS**

**SURVIVAL SUMMARY STATISTICS**

---

<b>DOSE</b>	<b>500 PPM</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	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)	94.0 (0.0)

(A) FIRST TERMINAL SACRIFICE

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**Lab:** BNW

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

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