

Experiment Number: 96011-02
Test Type: 14-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Mouse/B6C3F1

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Cumene
CAS Number: 98-82-8

Date Report Requested: 10/19/2014
Time Report Requested: 07:16:51
First Dose M/F: NA / NA
Lab: BNW

| | |
|-----------------------------|------------|
| C Number: | C96011 |
| Lock Date: | 02/05/2001 |
| Cage Range: | All |
| Date Range: | All |
| Reasons For Removal: | All |
| Removal Date Range: | All |
| Treatment Groups: | All |
| Study Gender: | Both |
| PWG Approval Date | NONE |

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Lab: BNW

Male MOUSE
FIRST TERMINAL SACRIFICE AT 18 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 5

UNCENSORED DEATHS 0

CENSORED DEATHS 0

TERMINAL 5

UNCENSORED DEATH DAYS

none

CENSORED DEATH DAYS

none

DOSE = 250 PPM

TOTAL 5

UNCENSORED DEATHS 0

CENSORED DEATHS 0

TERMINAL 5

UNCENSORED DEATH DAYS

none

CENSORED DEATH DAYS

none

DOSE = 500 PPM

TOTAL 5

UNCENSORED DEATHS 0

CENSORED DEATHS 0

TERMINAL 5

UNCENSORED DEATH DAYS

none

CENSORED DEATH DAYS

none

DOSE = 1000 PPM

TOTAL 5

UNCENSORED DEATHS 0

CENSORED DEATHS 0

TERMINAL 5

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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Lab: BNW

Male MOUSE
FIRST TERMINAL SACRIFICE AT 18 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 2000 PPM

TOTAL 5

UNCENSORED DEATHS 5

CENSORED DEATHS 0

TERMINAL 0

UNCENSORED DEATH DAYS

2 2 2

2 2

CENSORED DEATH DAYS

none

DOSE = 4000 PPM

TOTAL 5

UNCENSORED DEATHS 5

CENSORED DEATHS 0

TERMINAL 0

UNCENSORED DEATH DAYS

1 1 1

1 1

CENSORED DEATH DAYS

none

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First Dose M/F: NA / NA

Lab: BNW

Male MOUSE
FIRST TERMINAL SACRIFICE AT 18 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

| DOSE | TIME (DAYS) | | | | | | | | | |
|----------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18(A) | 18(A) |
| CONTROL | 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 |
| 1000 PPM | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 2000 PPM | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4000 PPM | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)

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First Dose M/F: NA / NA
Lab: BNW

Male MOUSE
FIRST TERMINAL SACRIFICE AT 18 DAYS

SURVIVAL SUMMARY STATISTICS

| DOSE | CONTROL | 250 PPM | 500 PPM | 1000 PPM |
|---|---------------|---------------|---------------|---------------|
| SURVIVAL AT END OF STUDY (KAPLAN-MEIER) | 100.0% | 100.0% | 100.0% | 100.0% |
| SIGNIFICANCE (B) (LIFE TABLE) | P=0.000 | ----- | ----- | ----- |
| MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR) | . | . | . | . |
| MEAN LIFE SPAN (D) (STANDARD ERROR) | 18.0 (0.0) | 18.0 (0.0) | 18.0 (0.0) | 18.0 (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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(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 18 DAYS**

SURVIVAL SUMMARY STATISTICS

| DOSE | 2000 PPM | 4000 PPM |
|---|-----------------|-----------------|
| SURVIVAL AT END OF STUDY (KAPLAN-MEIER) | 0.0% | 0.0% |
| SIGNIFICANCE (B) (LIFE TABLE) | P=0.016 | P=0.016 |
| MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR) | 2.0 (.) | 1.0 (.) |
| MEAN LIFE SPAN (D) (STANDARD ERROR) | 2.0 (0.0) | 1.0 (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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(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

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First Dose M/F: NA / NA

Lab: BNW

Female MOUSE
FIRST TERMINAL SACRIFICE AT 18 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 5 UNCENSORED DEATHS 0 CENSORED DEATHS 0 TERMINAL 5

UNCENSORED DEATH DAYS

none

CENSORED DEATH DAYS

none

DOSE = 250 PPM

TOTAL 5 UNCENSORED DEATHS 0 CENSORED DEATHS 0 TERMINAL 5

UNCENSORED DEATH DAYS

none

CENSORED DEATH DAYS

none

DOSE = 500 PPM

TOTAL 5 UNCENSORED DEATHS 0 CENSORED DEATHS 0 TERMINAL 5

UNCENSORED DEATH DAYS

none

CENSORED DEATH DAYS

none

DOSE = 1000 PPM

TOTAL 5 UNCENSORED DEATHS 4 CENSORED DEATHS 0 TERMINAL 1

UNCENSORED DEATH DAYS

3 3 3 4

CENSORED DEATH DAYS

none

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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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Species/Strain: Mouse/B6C3F1

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CAS Number: 98-82-8

Date Report Requested: 10/19/2014
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First Dose M/F: NA / NA
Lab: BNW

Female MOUSE
 FIRST TERMINAL SACRIFICE AT 18 DAYS
 INDIVIDUAL SURVIVAL TIMES (DAYS)

| | | | | |
|------------------------------|---|---|-------------------|---|
| DOSE = 2000 PPM | | | | |
| TOTAL | 5 | | UNCENSORED DEATHS | 5 |
| | | | CENSORED DEATHS | 0 |
| | | | TERMINAL | 0 |
| UNCENSORED DEATH DAYS | | | | |
| 2 | 2 | 2 | 2 | 2 |
| CENSORED DEATH DAYS | | | | |
| none | | | | |

| | | | | |
|------------------------------|---|---|-------------------|---|
| DOSE = 4000 PPM | | | | |
| TOTAL | 5 | | UNCENSORED DEATHS | 5 |
| | | | CENSORED DEATHS | 0 |
| | | | TERMINAL | 0 |
| UNCENSORED DEATH DAYS | | | | |
| 1 | 1 | 1 | 1 | 1 |
| 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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Test Type: 14-DAY

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Species/Strain: Mouse/B6C3F1

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CAS Number: 98-82-8

Date Report Requested: 10/19/2014

Time Report Requested: 07:16:51

First Dose M/F: NA / NA

Lab: BNW

Female MOUSE
FIRST TERMINAL SACRIFICE AT 18 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

| DOSE | TIME (DAYS) | | | | | | | | | |
|----------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18(A) | 18(A) |
| CONTROL | 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 |
| 1000 PPM | 100.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| 2000 PPM | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4000 PPM | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(A) FIRST TERMINAL SACRIFICE

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First Dose M/F: NA / NA

Lab: BNW

Female MOUSE
FIRST TERMINAL SACRIFICE AT 18 DAYS

SURVIVAL SUMMARY STATISTICS

| DOSE | CONTROL | 250 PPM | 500 PPM | 1000 PPM |
|---|---------------|---------------|---------------|--------------|
| SURVIVAL AT END OF STUDY (KAPLAN-MEIER) | 100.0% | 100.0% | 100.0% | 20.0% |
| SIGNIFICANCE (B) (LIFE TABLE) | P=0.000 | ----- | ----- | P=0.053 |
| MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR) | . (.) | . (.) | . (.) | 3.3 (0.3) |
| MEAN LIFE SPAN (D) (STANDARD ERROR) | 18.0 (0.0) | 18.0 (0.0) | 18.0 (0.0) | 6.2 (3.0) |

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First Dose M/F: NA / NA

Lab: BNW

**Female MOUSE
FIRST TERMINAL SACRIFICE AT 18 DAYS**

SURVIVAL SUMMARY STATISTICS

| DOSE | 2000 PPM | 4000 PPM |
|---|-----------------|-----------------|
| SURVIVAL AT END OF STUDY (KAPLAN-MEIER) | 0.0% | 0.0% |
| SIGNIFICANCE (B) (LIFE TABLE) | P=0.016 | P=0.016 |
| MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR) | 2.0 (.) | 1.0 (.) |
| MEAN LIFE SPAN (D) (STANDARD ERROR) | 2.0 (0.0) | 1.0 (0.0) |

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Lab: BNW

**** END OF REPORT ****

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