

**TDMS No.** 99017 - 06

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** MICE/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

Diethylamine

**CAS Number:** 109-89-7

F1\_M3

**Date Report Requested:** 10/23/2008

**Time Report Requested:** 13:20:12

**First Dose M/F:** 08/18/03 / 08/18/03

**Lab:** BNW

**C Number:** C99017  
**Lock Date:** 08/01/2006  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.0.0

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Lab: BNW

MALE MICE

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 50                      UNCENSORED DEATHS 19                      CENSORED DEATHS 0                      TERMINAL 31

UNCENSORED DEATH DAYS:

491 503 509 561 583 584 589 606 606 609 620 632 656 673  
676 676 702 705 725

CENSORED DEATH DAYS:

None

DOSE = 16 PPM

TOTAL 50                      UNCENSORED DEATHS 12                      CENSORED DEATHS 0                      TERMINAL 38

UNCENSORED DEATH DAYS:

484 536 541 561 610 620 648 666 684 684 710 718

CENSORED DEATH DAYS:

None

DOSE = 31 PPM

TOTAL 50                      UNCENSORED DEATHS 18                      CENSORED DEATHS 0                      TERMINAL 32

UNCENSORED DEATH DAYS:

442 484 506 508 551 590 609 610 618 621 637 665 673 678  
690 705 705 723

CENSORED DEATH DAYS:

None

DOSE = 62.5 PPM

TOTAL 50                      UNCENSORED DEATHS 13                      CENSORED DEATHS 0                      TERMINAL 37

UNCENSORED DEATH DAYS:

442 554 555 563 581 583 659 659 662 680 680 715 717

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INDIVIDUAL SURVIVAL TIMES (DAYS)

CENSORED DEATH DAYS:

None

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**MALE MICE**  
 FIRST TERMINAL SACRIFICE AT 729 DAYS

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

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	729(A)
<b>CONTROL</b>	100.0	100.0	100.0	100.0	100.0	100.0	94.0	86.0	74.0	62.0
<b>16 PPM</b>	100.0	100.0	100.0	100.0	100.0	98.0	94.0	92.0	86.0	76.0
<b>31 PPM</b>	100.0	100.0	100.0	100.0	100.0	96.0	92.0	88.0	76.0	64.0
<b>62.5 PPM</b>	100.0	100.0	100.0	100.0	100.0	98.0	98.0	88.0	82.0	74.0

- (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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Lab: BNW

MALE MICE

FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	16 PPM	31 PPM	62.5 PPM
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	62.0%	76.0%	64.0%	74.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.416N	P=0.174N	P=0.943N	P=0.267N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	616.1 (15.8)	621.8 (22.0)	611.9 (19.7)	619.2 (22.2)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	686.1 (9.8)	703.3 (8.3)	686.9 (10.6)	700.5 (8.9)

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

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**FEMALE MICE**

FIRST TERMINAL SACRIFICE AT 731 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

CENSORED DEATH DAYS:

None

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**Lab:** BNW

**FEMALE MICE**  
 FIRST TERMINAL SACRIFICE AT 731 DAYS

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

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	731(A)
<b>CONTROL</b>	98.0	98.0	98.0	98.0	98.0	96.0	92.0	82.0	80.0	64.0
<b>16 PPM</b>	100.0	100.0	100.0	98.0	98.0	96.0	94.0	86.0	76.0	70.0
<b>31 PPM</b>	100.0	100.0	100.0	100.0	98.0	98.0	98.0	98.0	96.0	72.0
<b>62.5 PPM</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	86.0	78.0

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SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	16 PPM	31 PPM	62.5 PPM
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	64.0%	70.0%	72.0%	78.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.113N	P=0.755N	P=0.364N	P=0.150N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	600.2 (37.2)	586.3 (25.5)	678.8 (21.2)	665.5 (10.6)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	683.9 (15.9)	687.6 (12.1)	716.4 (6.7)	716.6 (4.5)

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

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