

**TDMS No.** 99017 - 05

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** RATS/F 344/N

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

Diethylamine

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

**Date Report Requested:** 01/13/2010

**Time Report Requested:** 11:20:13

**First Dose M/F:** 08/25/03 / 08/25/03

**Lab:** BNW

F3\_R2

**C Number:** C99017  
**Lock Date:** 07/24/2006  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.2.0

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MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

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TOTAL 50	UNCENSORED DEATHS 22	CENSORED DEATHS 0	TERMINAL 28										
UNCENSORED DEATH DAYS													
505	547	549	557	562	585	605	621	625	640	642	646	647	651
656	660	667	675	695	710	723	723						
CENSORED DEATH DAYS													
None													

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DOSE = 31 PPM

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TOTAL 50	UNCENSORED DEATHS 29	CENSORED DEATHS 0	TERMINAL 21										
UNCENSORED DEATH DAYS													
455	473	478	512	571	583	600	611	635	640	646	652	663	670
674	674	674	677	682	688	698	702	702	702	705	710	710	710
715													
CENSORED DEATH DAYS													
None													

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DOSE = 62.5 PPM

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TOTAL 50	UNCENSORED DEATHS 25	CENSORED DEATHS 0	TERMINAL 25										
UNCENSORED DEATH DAYS													
453	475	569	596	612	624	646	652	652	653	656	665	674	681
687	694	699	711	712	714	715	716	719	724	726			
CENSORED DEATH DAYS													
None													

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DOSE = 125 PPM

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TOTAL 50	UNCENSORED DEATHS 14	CENSORED DEATHS 0	TERMINAL 36										
UNCENSORED DEATH DAYS													
291	527	562	611	618	628	634	646	656	669	684	702	703	716
CENSORED DEATH DAYS													
None													

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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)
CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	98.0	86.0	68.0	56.0
31 PPM	100.0	100.0	100.0	100.0	100.0	94.0	92.0	86.0	74.0	42.0
62.5 PPM	100.0	100.0	100.0	100.0	100.0	96.0	96.0	92.0	76.0	50.0
125 PPM	100.0	100.0	100.0	98.0	98.0	98.0	96.0	94.0	82.0	72.0

(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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MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	56.0%	42.0%	50.0%	72.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.038N	P=0.333	P=0.927	P=0.136N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	631.4 (12.8)	641.8 (14.3)	657.0 (14.4)	617.6 (28.9)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	686.1 (8.9)	678.4 (10.3)	693.0 (8.8)	697.8 (10.6)

(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)

**FEMALE RATS**

FIRST TERMINAL SACRIFICE AT 730 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

**DOSE = CONTROL**

TOTAL 50	UNCENSORED DEATHS 19	CENSORED DEATHS 0	TERMINAL 31										
UNCENSORED DEATH DAYS													
361	486	502	536	544	590	598	599	625	638	646	665	674	688
704	704	706	716	716									
CENSORED DEATH DAYS													
None													

**DOSE = 31 PPM**

TOTAL 50	UNCENSORED DEATHS 19	CENSORED DEATHS 0	TERMINAL 31										
UNCENSORED DEATH DAYS													
574	575	578	607	631	640	642	645	646	654	666	688	688	702
702	706	710	716	717									
CENSORED DEATH DAYS													
None													

**DOSE = 62.5 PPM**

TOTAL 50	UNCENSORED DEATHS 20	CENSORED DEATHS 0	TERMINAL 30										
UNCENSORED DEATH DAYS													
310	481	544	553	554	618	631	638	639	641	661	666	681	682
683	688	702	719	724	725								
CENSORED DEATH DAYS													
None													

**DOSE = 125 PPM**

TOTAL 50	UNCENSORED DEATHS 16	CENSORED DEATHS 0	TERMINAL 34										
UNCENSORED DEATH DAYS													
429	449	571	586	590	592	618	618	627	647	663	666	667	675
712	729												
CENSORED DEATH DAYS													
None													

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 730 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	730(A)
CONTROL	100.0	100.0	100.0	98.0	98.0	98.0	90.0	84.0	76.0	62.0
31 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.0	80.0	62.0
62.5 PPM	100.0	100.0	100.0	98.0	98.0	96.0	94.0	90.0	78.0	60.0
125 PPM	100.0	100.0	100.0	100.0	100.0	96.0	96.0	88.0	78.0	68.0

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SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	31 PPM	62.5 PPM	125 PPM
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	62.0%	62.0%	60.0%	68.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.640N	P=1.000N	P=1.000	P=0.682N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	615.7 (21.9)	657.2 (11.1)	627.0 (22.3)	614.9 (20.5)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	686.6 (11.4)	702.3 (6.5)	688.8 (11.4)	693.2 (10.0)

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

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