

TDMS No. 88006-04
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
ALPHA-METHYLSTYRENE
CAS Number: 98-83-9
Pathologist: GRUMBEIN, S.
Final 1 Mice

Date Report Reqsted: 07/28/2005
Time Report Reqsted: 9:59:28
First Dose M/F: 07/30/01 / 07/30/01
Lab: BNW

C Number: C88006B
Lock Date: 03/08/2004
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: JAN /1 /1940 - SEP /17 /2040
Treatment Groups: Include 1 CONTROL
Include 4 100 PPM
Include 7 600 PPM

Include 2 CONTROL
Include 5 300 PPM
Include 8 600 PPM

Include 3 100 PPM
Include 6 300 PPM

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MALE MICE
FIRST TERMINAL SACRIFICE AT 729 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 50	UNCENSORED DEATHS 15	CENSORED DEATHS 0	TERMINAL 35
UNCENSORED DEATHS 456 486 549 724	555 570 579 635 659 683 684 690 694 710 715		
CENSORED DEATHS None			

DOSE = 100 PPM

TOTAL 50	UNCENSORED DEATHS 18	CENSORED DEATHS 0	TERMINAL 32
UNCENSORED DEATHS 236 345 348 710 711 726	453 464 481 532 537 550 612 626 660 675 704 728		
CENSORED DEATHS None			

DOSE = 300 PPM

TOTAL 50	UNCENSORED DEATHS 10	CENSORED DEATHS 0	TERMINAL 40
UNCENSORED DEATHS 383 565 608	668 698 698 710 726 728 728		
CENSORED DEATHS None			

DOSE = 600 PPM

TOTAL 50	UNCENSORED DEATHS 14	CENSORED DEATHS 0	TERMINAL 36
UNCENSORED DEATHS 327 429 432	460 522 537 540 568 605 609 635 705 715 719		
CENSORED DEATHS			

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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	98.0	96.0	88.0	84.0	70.0
100 PPM	100.0	100.0	98.0	94.0	94.0	88.0	84.0	82.0	76.0	64.0
300 PPM	100.0	100.0	100.0	100.0	98.0	98.0	98.0	96.0	94.0	80.0
600 PPM	100.0	100.0	100.0	98.0	98.0	92.0	86.0	82.0	78.0	72.0

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	100 PPM	300 PPM	600 PPM
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	70.0%	64.0%	80.0%	72.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.583N	P=0.566	P=0.285N	P=1.000N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	625.9 (22.5)	561.0 (35.1)	651.2 (34.4)	557.4 (31.5)
MEAN LIFE SPAN (D) (STANDARD ERROR)	698.1 (9.4)	668.5 (16.9)	713.4 (8.0)	680.9 (14.0)

(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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FEMALE MICE

FIRST TERMINAL SACRIFICE AT 731 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 50	UNCENSORED DEATHS 11	CENSORED DEATHS 0	TERMINAL 39
UNCENSORED DEATHS			
149 481 537	621 633 634 670 689	705 707 725	
CENSORED DEATHS			
None			

DOSE = 100 PPM

TOTAL 50	UNCENSORED DEATHS 12	CENSORED DEATHS 0	TERMINAL 38
UNCENSORED DEATHS			
269 497 509	523 537 556 640 668	670 705 725 726	
CENSORED DEATHS			
None			

DOSE = 300 PPM

TOTAL 50	UNCENSORED DEATHS 12	CENSORED DEATHS 1	TERMINAL 37
UNCENSORED DEATHS			
30 30 416	507 649 656 663 670	702 705 719 719	
CENSORED DEATHS			
309			

DOSE = 600 PPM

TOTAL 50	UNCENSORED DEATHS 13	CENSORED DEATHS 0	TERMINAL 37
UNCENSORED DEATHS			
464 523 527	612 645 677 683 684	686 694 694 709 712	
CENSORED DEATHS			
None			

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KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	731(A)
CONTROL	100.0	98.0	98.0	98.0	98.0	96.0	94.0	94.0	88.0	78.0
100 PPM	100.0	100.0	98.0	98.0	98.0	98.0	90.0	88.0	86.0	76.0
300 PPM	96.0	96.0	96.0	96.0	94.0	94.0	91.9	91.9	85.8	75.6
600 PPM	100.0	100.0	100.0	100.0	100.0	98.0	94.0	94.0	90.0	74.0

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	100 PPM	300 PPM	600 PPM
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	78.0%	76.0%	75.6%	74.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.766	P=0.960	P=0.937	P=0.819
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	595.5 (50.0)	585.4 (38.1)	538.8 (73.4)	639.2 (22.8)
MEAN LIFE SPAN (D) (STANDARD ERROR)	701.2 (13.3)	696.1 (12.5)	676.4 (22.0)	707.1 (8.1)

*** END OF REPORT ***

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

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