

TDMS No. 96011-06
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
CUMENE
CAS Number: 98-82-8
Pathologist: PIERCE, J. - GRUMBEIN, S.
F1 Mice

Date Report Requested: 02/27/2006
Time Report Requested: 15:34:38
First Dose M/F: 06/11/01 / 06/11/01
Lab: BNW

C Number:	C96011		
Lock Date:	12/30/2003		
Cage Range:	1 - 9999		
Date Range:	1-JAN-1940 to 17-SEP-2040		
Reasons For Removal:	25021 Terminal Sacrifice	25020 Natural Death	25019 Moribund Sacrifice
Removal Date Range:	JAN /1 /1940 - SEP /17 /2040		
Treatment Groups:	Include 1 CONTROL	Include 2 CONTROL	Include 3 125 PPM
	Include 4 250 PPM	Include 5 250 PPM	Include 6 500 PPM
	Include 7 500 PPM	Include 8 1000 PPM	

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MALE MICE

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 50	UNCENSORED DEATHS 12	CENSORED DEATHS 0	TERMINAL 38
UNCENSORED DEATHS			
551 583 622	628 631 659 659 663 667 668 687 720		
CENSORED DEATHS			
None			

DOSE = 250 PPM

TOTAL 50	UNCENSORED DEATHS 16	CENSORED DEATHS 0	TERMINAL 34
UNCENSORED DEATHS			
453 503 533	551 593 610 632 652 654 662 673 678 691 698		
712 715			
CENSORED DEATHS			
None			

DOSE = 500 PPM

TOTAL 50	UNCENSORED DEATHS 20	CENSORED DEATHS 0	TERMINAL 30
UNCENSORED DEATHS			
381 503 512	565 568 598 638 645 649 664 668 683 684 690		
702 712 718	723 726 726		
CENSORED DEATHS			
None			

DOSE = 1000 PPM

TOTAL 50	UNCENSORED DEATHS 27	CENSORED DEATHS 0	TERMINAL 23
UNCENSORED DEATHS			
391 407 420	449 480 526 556 576 609 609 610 627 628 628		

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645 671 680 683 687 687 694 694 696 701 705 705 718

CENSORED DEATHS

None

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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	100.0	100.0	96.0	84.0	76.0
250 PPM	100.0	100.0	100.0	100.0	100.0	98.0	94.0	90.0	80.0	68.0
500 PPM	100.0	100.0	100.0	100.0	98.0	98.0	94.0	88.0	80.0	60.0
1000 PPM	100.0	100.0	100.0	100.0	94.0	90.0	88.0	84.0	70.0	46.0

(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

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FEMALE MICE

FIRST TERMINAL SACRIFICE AT 731 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

SURVIVAL SUMMARY STATISTICS				
DOSE	CONTROL	250 PPM	500 PPM	1000 PPM
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	76.0%	68.0%	60.0%	46.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.001	P=0.475	P=0.150	P=0.004
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	644.8 (13.1)	625.6 (19.7)	637.8 (20.5)	610.4 (19.5)
MEAN LIFE SPAN (D) (STANDARD ERROR)	708.8 (6.0)	695.9 (9.2)	692.5 (10.3)	665.0 (13.4)

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INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 50	UNCENSORED DEATHS 13	CENSORED DEATHS 0	TERMINAL 37
UNCENSORED DEATHS			
193 281 292	533 551 607 645 654	656 683 691 693 726	
CENSORED DEATHS			
None			

DOSE = 125 PPM

TOTAL 50	UNCENSORED DEATHS 14	CENSORED DEATHS 0	TERMINAL 36
UNCENSORED DEATHS			
370 481 499	555 609 623 636 645	646 668 687 712 713	726
CENSORED DEATHS			
None			

DOSE = 250 PPM

TOTAL 50	UNCENSORED DEATHS 11	CENSORED DEATHS 0	TERMINAL 39
UNCENSORED DEATHS			
495 509 618	639 651 673 687 687	694 703 709	
CENSORED DEATHS			
None			

DOSE = 500 PPM

TOTAL 50	UNCENSORED DEATHS 15	CENSORED DEATHS 0	TERMINAL 35
UNCENSORED DEATHS			
513 565 662	672 677 679 687 691	701 702 702 712 718	718
726			
CENSORED DEATHS			

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DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	731(A)
CONTROL	100.0	100.0	98.0	94.0	94.0	94.0	92.0	90.0	82.0	74.0
125 PPM	100.0	100.0	100.0	100.0	98.0	96.0	94.0	92.0	82.0	72.0
250 PPM	100.0	100.0	100.0	100.0	100.0	100.0	96.0	96.0	90.0	78.0
500 PPM	100.0	100.0	100.0	100.0	100.0	100.0	98.0	96.0	94.0	70.0

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SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	125 PPM	250 PPM	500 PPM
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	74.0%	72.0%	78.0%	70.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.996	P=1.000	P=0.728N	P=0.982
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	554.2 (50.0)	612.1 (27.4)	642.3 (22.5)	675.0 (15.2)
MEAN LIFE SPAN (D) (STANDARD ERROR)	685.0 (16.8)	697.7 (10.7)	711.5 (7.1)	714.2 (5.8)

*** END OF REPORT ***

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