

TDMS No. 20107 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
N,N-Dimethyl-p-toluidine
CAS Number: 99-97-8

Date Report Requested: 01/24/2011
Time Report Requested: 10:59:00
First Dose M/F: 10/20/04 / 10/21/04
Lab: BAT

F1_R2

C Number: C20107
Lock Date: 02/20/2008
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.3.0
PWG Approval Date: NONE

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MALE RATS

FIRST TERMINAL SACRIFICE AT 727 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 MG/KG

TOTAL 50 UNCENSORED DEATHS 13 CENSORED DEATHS 0 TERMINAL 37
UNCENSORED DEATH DAYS
337 609 610 610 612 645 664 665 680 680 688 699 710
CENSORED DEATH DAYS
None

DOSE = 6 MG/KG

TOTAL 50 UNCENSORED DEATHS 12 CENSORED DEATHS 1 TERMINAL 37
UNCENSORED DEATH DAYS
324 512 530 588 601 624 674 695 695 713 721 721
CENSORED DEATH DAYS
62

DOSE = 20 MG/KG

TOTAL 50 UNCENSORED DEATHS 18 CENSORED DEATHS 1 TERMINAL 31
UNCENSORED DEATH DAYS
129 233 237 519 538 581 612 616 626 643 645 654 661 680
686 688 707 712
CENSORED DEATH DAYS
147

DOSE = 60 MG/KG

TOTAL 50 UNCENSORED DEATHS 26 CENSORED DEATHS 3 TERMINAL 21
UNCENSORED DEATH DAYS
348 384 412 431 496 601 612 614 616 622 626 645 645 653
656 661 661 668 669 671 695 699 723 724 724 724
CENSORED DEATH DAYS
192 576 582

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FIRST TERMINAL SACRIFICE AT 727 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	727(A)
0 MG/KG	100.0	100.0	100.0	98.0	98.0	98.0	98.0	98.0	84.0	74.0
6 MG/KG	100.0	100.0	100.0	98.0	98.0	98.0	93.9	89.8	87.8	75.5
20 MG/KG	100.0	98.0	93.9	93.9	93.9	93.9	89.8	87.8	73.5	63.3
60 MG/KG	100.0	100.0	100.0	98.0	93.9	91.8	89.8	87.7	64.1	44.9

(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 TERMINAL SACRIFICE AT 727 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	0 MG/KG	6 MG/KG	20 MG/KG	60 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	74.0%	75.5%	63.3%	44.9%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.001	P=1.000N	P=0.290	P=0.006
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	631.5 (26.5)	616.5 (33.9)	564.8 (41.8)	614.6 (21.2)
MEAN LIFE SPAN (D) (STANDARD ERROR)	702.2 (9.0)	687.2 (16.4)	657.0 (21.2)	651.9 (16.5)

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KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	728(A)
0 MG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.0	86.0	66.0
6 MG/KG	100.0	100.0	100.0	100.0	100.0	100.0	98.0	95.9	91.8	85.7
20 MG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0	84.0	66.0
60 MG/KG	98.0	98.0	98.0	98.0	96.0	89.8	83.7	79.6	71.5	47.0

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SURVIVAL SUMMARY STATISTICS				
DOSE	0 MG/KG	6 MG/KG	20 MG/KG	60 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	66.0%	85.7%	66.0%	47.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.001	P=0.042N	P=1.000N	P=0.062
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	658.3 (11.6)	632.1 (27.9)	665.9 (9.8)	592.3 (30.0)
MEAN LIFE SPAN (D) (STANDARD ERROR)	704.3 (6.1)	700.8 (14.8)	706.9 (5.3)	650.5 (19.0)

*** END OF REPORT ***

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