

TDMS No. 88148 - 06
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 04/15/2009

Time Report Requested: 09:57:26

First Dose M/F: 01/29/03 / 01/30/03

Lab: BAT

F3_R8

C Number: C88148C
Lock Date: 09/22/2005
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.1.0

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

DOSE = 0 MG/KG

TOTAL 50 UNCENSORED DEATHS 21 CENSORED DEATHS 1 TERMINAL 28
UNCENSORED DEATH DAYS:
274 398 420 496 513 549 567 575 592 617 627 639 640 650
650 671 694 700 706 716 717
CENSORED DEATH DAYS:
496

DOSE = 10 MG/KG

TOTAL 50 UNCENSORED DEATHS 41 CENSORED DEATHS 0 TERMINAL 9
UNCENSORED DEATH DAYS:
62 176 332 380 427 454 467 471 486 499 500 504 514 521
524 524 532 535 537 541 549 549 576 576 595 602 612 617
626 627 635 637 644 657 671 674 682 689 690 698 705
CENSORED DEATH DAYS:
None

DOSE = 30 MG/KG

TOTAL 50 UNCENSORED DEATHS 45 CENSORED DEATHS 1 TERMINAL 4
UNCENSORED DEATH DAYS:
115 258 281 295 307 367 438 448 452 468 474 474 487 491
497 533 554 554 562 562 573 573 574 574 580 587 588 602
608 609 609 617 617 653 653 653 658 660 670 671 689 697
707 712 712
CENSORED DEATH DAYS:
38

DOSE = 100 MG/KG

TOTAL 50 UNCENSORED DEATHS 47 CENSORED DEATHS 1 TERMINAL 2

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UNCENSORED DEATH DAYS:

174	192	225	274	281	365	387	398	433	443	484	499	500	503
503	514	524	529	539	544	553	560	567	571	585	586	588	588
589	603	608	613	613	623	634	635	643	645	648	650	650	657
667	668	701	706	716									

CENSORED DEATH DAYS:

476

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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	94.0	94.0	90.0	81.8	69.5	57.2
10 MG/KG	98.0	96.0	96.0	94.0	92.0	84.0	60.0	48.0	32.0	18.0
30 MG/KG	100.0	98.0	95.9	89.8	87.8	75.5	67.3	42.9	22.4	8.2
100 MG/KG	100.0	98.0	94.0	88.0	84.0	77.9	59.5	39.0	14.4	4.1

(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 727 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	57.2%	18.0%	8.2%	4.1%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	P<0.001	P<0.001	P<0.001
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	591.0 (25.4)	543.8 (20.7)	543.6 (20.0)	535.7 (19.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	665.3 (14.6)	576.8 (19.7)	548.2 (22.0)	542.2 (19.3)

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

DOSE = 0 MG/KG

TOTAL 50 UNCENSORED DEATHS 24 CENSORED DEATHS 1 TERMINAL 25
UNCENSORED DEATH DAYS:
232 372 406 478 483 504 540 548 548 560 575 587 588 595
636 649 660 674 674 684 696 700 706 712
CENSORED DEATH DAYS:
614

DOSE = 10 MG/KG

TOTAL 50 UNCENSORED DEATHS 20 CENSORED DEATHS 0 TERMINAL 30
UNCENSORED DEATH DAYS:
153 271 309 335 366 460 460 510 527 544 553 560 587 587
589 589 606 621 705 722
CENSORED DEATH DAYS:
None

DOSE = 30 MG/KG

TOTAL 50 UNCENSORED DEATHS 29 CENSORED DEATHS 2 TERMINAL 19
UNCENSORED DEATH DAYS:
273 391 460 525 540 548 560 574 580 587 593 597 597 611
612 615 628 630 634 644 649 659 668 673 688 710 716 720
721
CENSORED DEATH DAYS:
229 439

DOSE = 100 MG/KG

TOTAL 50 UNCENSORED DEATHS 33 CENSORED DEATHS 0 TERMINAL 17

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INDIVIDUAL SURVIVAL TIMES (DAYS)

UNCENSORED DEATH DAYS:

314	378	401	467	481	523	536	551	558	560	588	590	608	616
617	630	632	632	649	658	671	679	684	684	684	689	693	693
705	705	718	721	725									

CENSORED DEATH DAYS:

None

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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	98.0	98.0	94.0	90.0	86.0	72.0	65.8	51.4
10 MG/KG	100.0	98.0	98.0	92.0	90.0	86.0	80.0	68.0	64.0	60.0
30 MG/KG	100.0	100.0	100.0	98.0	95.9	93.8	89.7	73.0	54.2	39.6
100 MG/KG	100.0	100.0	100.0	98.0	94.0	90.0	86.0	76.0	60.0	34.0

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SURVIVAL SUMMARY STATISTICS

DOSE	0 MG/KG	10 MG/KG	30 MG/KG	100 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	51.4%	60.0%	39.6%	34.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.085	P=0.687N	P=0.390	P=0.196
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	575.3 (24.4)	502.7 (33.0)	600.1 (18.2)	607.3 (18.2)
MEAN LIFE SPAN (D) (STANDARD ERROR)	651.9 (15.8)	637.3 (20.4)	637.7 (16.5)	648.0 (14.4)

*** END OF REPORT ***

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