

TDMS No. 88148 - 07
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

3,3',4,4'-Tetrachloroazobenzene

CAS Number: 14047-09-7

Date Report Requested: 04/24/2009

Time Report Requested: 14:57:52

First Dose M/F: 02/04/03 / 02/03/03

Lab: BAT

F_2_M3

C Number: C88148C
Lock Date: 08/31/2005
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 MICE
FIRST TERMINAL SACRIFICE AT 728 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 MG/KG

TOTAL 50 UNCENSORED DEATHS 14 CENSORED DEATHS 1 TERMINAL 35
UNCENSORED DEATH DAYS:
486 563 584 609 609 612 618 625 682 694 700 711 718 721
CENSORED DEATH DAYS:
678

DOSE = 3 MG/KG

TOTAL 50 UNCENSORED DEATHS 19 CENSORED DEATHS 0 TERMINAL 31
UNCENSORED DEATH DAYS:
165 380 416 479 524 542 552 574 591 600 624 642 659 660
668 669 680 682 682
CENSORED DEATH DAYS:
None

DOSE = 10 MG/KG

TOTAL 50 UNCENSORED DEATHS 42 CENSORED DEATHS 3 TERMINAL 5
UNCENSORED DEATH DAYS:
169 358 366 366 366 437 470 471 519 521 521 529 533 542
548 553 556 561 567 567 577 584 594 602 617 627 637 640
644 659 662 664 665 665 669 673 678 682 689 700 716 718
CENSORED DEATH DAYS:
4 64 590

DOSE = 30 MG/KG

TOTAL 50 UNCENSORED DEATHS 50 CENSORED DEATHS 0 TERMINAL 0

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UNCENSORED DEATH DAYS:

206	221	233	235	242	250	254	261	288	296	315	326	337	340
357	359	366	371	372	376	380	381	388	392	399	406	413	414
416	427	430	445	451	469	470	470	482	484	490	491	492	505
505	507	507	508	510	512	519	528						

CENSORED DEATH DAYS:

None

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MALE MICE
FIRST TERMINAL SACRIFICE AT 728 DAYS

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	98.0	94.0	84.0	71.7
3 MG/KG	100.0	98.0	98.0	98.0	94.0	92.0	88.0	80.0	72.0	62.0
10 MG/KG	100.0	97.9	97.9	95.8	89.6	83.3	70.8	49.8	28.2	10.8
30 MG/KG	100.0	100.0	84.0	68.0	42.0	24.0	0.0	0.0	0.0	0.0

(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 MICE
FIRST TERMINAL SACRIFICE AT 728 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	0 MG/KG	3 MG/KG	10 MG/KG	30 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	71.7%	62.0%	10.8%	0.0%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	P=0.283	P<0.001	P<0.001
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	638.0 (18.5)	567.8 (30.5)	568.6 (18.1)	395.9 (13.3)
MEAN LIFE SPAN (D) (STANDARD ERROR)	701.8 (7.7)	667.1 (15.9)	563.6 (22.7)	395.9 (13.3)

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FEMALE MICE
FIRST TERMINAL SACRIFICE AT 731 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 MG/KG

TOTAL 50 UNCENSORED DEATHS 14 CENSORED DEATHS 1 TERMINAL 35
UNCENSORED DEATH DAYS:
269 474 546 558 569 583 587 606 610 610 667 669 705 716
CENSORED DEATH DAYS:
4

DOSE = 3 MG/KG

TOTAL 50 UNCENSORED DEATHS 20 CENSORED DEATHS 0 TERMINAL 30
UNCENSORED DEATH DAYS:
459 542 566 571 596 651 654 661 661 664 673 673 674 675
677 703 709 716 717 722
CENSORED DEATH DAYS:
None

DOSE = 10 MG/KG

TOTAL 50 UNCENSORED DEATHS 17 CENSORED DEATHS 1 TERMINAL 32
UNCENSORED DEATH DAYS:
477 491 517 536 541 590 614 623 638 661 677 681 683 685
692 698 711
CENSORED DEATH DAYS:
3

DOSE = 30 MG/KG

TOTAL 50 UNCENSORED DEATHS 30 CENSORED DEATHS 1 TERMINAL 19
UNCENSORED DEATH DAYS:
50 304 337 337 477 477 477 485 522 540 541 543 543 545
603 641 645 648 648 652 652 673 680 688 688 688 712 715
728 729

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INDIVIDUAL SURVIVAL TIMES (DAYS)

CENSORED DEATH DAYS:
15

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FIRST TERMINAL SACRIFICE AT 731 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	731(A)
0 MG/KG	100.0	100.0	98.0	98.0	98.0	95.9	95.9	85.7	79.6	71.4
3 MG/KG	100.0	100.0	100.0	100.0	100.0	98.0	96.0	90.0	80.0	60.0
10 MG/KG	100.0	100.0	100.0	100.0	100.0	98.0	89.8	87.8	79.6	65.3
30 MG/KG	98.0	98.0	98.0	91.8	91.8	83.7	71.4	69.4	57.1	38.8

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SURVIVAL SUMMARY STATISTICS

DOSE	0 MG/KG	3 MG/KG	10 MG/KG	30 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	71.4%	60.0%	65.3%	38.8%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	P=0.438	P=0.715	P=0.002
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	583.5 (29.8)	648.2 (15.2)	618.5 (19.0)	565.6 (28.0)
MEAN LIFE SPAN (D) (STANDARD ERROR)	675.2 (18.5)	697.9 (8.3)	678.2 (17.0)	617.4 (23.6)

*** END OF REPORT ***

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