

TDMS No. 20114 - 06
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Date Report Reqsted: 10/04/2007

Time Report Reqsted: 10:37:54

First Dose M/F: 09/04/02 / 09/04/02

Lab: SRI

F2_M3

C Number: C20114
Lock Date: 10/04/2005
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
TDMSE Version: 1.8.0

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

DOSE = 0 MG/L

TOTAL 50 UNCENSORED DEATHS 17 CENSORED DEATHS 0 TERMINAL 33
UNCENSORED DEATH DAYS:
435 483 631 631 638 644 650 651 661 664 665 668 675 689
718 722 728
CENSORED DEATH DAYS:
None

DOSE = 14.3 MG/L

TOTAL 50 UNCENSORED DEATHS 15 CENSORED DEATHS 0 TERMINAL 35
UNCENSORED DEATH DAYS:
349 533 585 587 588 608 623 638 645 646 658 664 671 681
692
CENSORED DEATH DAYS:
None

DOSE = 28.6 MG/L

TOTAL 50 UNCENSORED DEATHS 15 CENSORED DEATHS 0 TERMINAL 35
UNCENSORED DEATH DAYS:
62 482 496 544 554 580 587 604 621 623 623 664 684 721
728
CENSORED DEATH DAYS:
None

DOSE = 85.7 MG/L

TOTAL 50 UNCENSORED DEATHS 12 CENSORED DEATHS 0 TERMINAL 38
UNCENSORED DEATH DAYS:
545 562 567 616 622 645 662 672 685 692 693 721

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

CENSORED DEATH DAYS:
None

DOSE = 257.4 MG/L

TOTAL 50 UNCENSORED DEATHS 18 CENSORED DEATHS 0 TERMINAL 32

UNCENSORED DEATH DAYS:

391 405 451 471 600 608 623 623 632 650 683 699 701 703
714 717 719 723

CENSORED DEATH DAYS:
None

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MALE MICE
 FIRST TERMINAL SACRIFICE AT 729 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	729(A)
0 MG/L	100.0	100.0	100.0	100.0	100.0	96.0	96.0	96.0	78.0	66.0
14.3 MG/L	100.0	100.0	100.0	98.0	98.0	98.0	96.0	90.0	76.0	70.0
28.6 MG/L	98.0	98.0	98.0	98.0	98.0	96.0	92.0	84.0	76.0	70.0
85.7 MG/L	100.0	100.0	100.0	100.0	100.0	100.0	98.0	94.0	86.0	76.0
257.4 MG/L	100.0	100.0	100.0	100.0	96.0	92.0	92.0	90.0	80.0	64.0

- (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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MALE MICE
 FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	0 MG/L	14.3 MG/L	28.6 MG/L	85.7 MG/L
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	66.0%	70.0%	70.0%	76.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.724	P=0.949N	P=0.982N	P=0.387N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	644.3 (18.5)	611.2 (21.8)	571.5 (40.9)	640.2 (16.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	700.2 (8.4)	693.7 (10.0)	681.8 (15.8)	707.7 (6.7)

DOSE	257.4 MG/L
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	64.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.918
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	617.4 (26.4)
MEAN LIFE SPAN (D) (STANDARD ERROR)	688.8 (12.1)

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

DOSE = 0 MG/L

TOTAL 50 UNCENSORED DEATHS 13 CENSORED DEATHS 0 TERMINAL 37
UNCENSORED DEATH DAYS:
212 552 583 600 616 623 636 638 655 668 674 695 696
CENSORED DEATH DAYS:
None

DOSE = 14.3 MG/L

TOTAL 50 UNCENSORED DEATHS 11 CENSORED DEATHS 0 TERMINAL 39
UNCENSORED DEATH DAYS:
461 496 568 570 629 632 671 688 688 695 728
CENSORED DEATH DAYS:
None

DOSE = 57.3 MG/L

TOTAL 50 UNCENSORED DEATHS 5 CENSORED DEATHS 0 TERMINAL 45
UNCENSORED DEATH DAYS:
311 611 615 646 722
CENSORED DEATH DAYS:
None

DOSE = 172 MG/L

TOTAL 50 UNCENSORED DEATHS 8 CENSORED DEATHS 0 TERMINAL 42
UNCENSORED DEATH DAYS:
428 535 555 599 604 646 719 728
CENSORED DEATH DAYS:
None

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FEMALE MICE

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

DOSE = 516 MG/L

TOTAL	50	UNCENSORED DEATHS	8	CENSORED DEATHS	0	TERMINAL	42	
UNCENSORED DEATH DAYS:								
	170	625	646	652	664	692	693	697
CENSORED DEATH DAYS:								
	None							

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FEMALE MICE
 FIRST TERMINAL SACRIFICE AT 729 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	729(A)
0 MG/L	100.0	100.0	98.0	98.0	98.0	98.0	98.0	92.0	82.0	74.0
14.3 MG/L	100.0	100.0	100.0	100.0	100.0	98.0	96.0	92.0	88.0	78.0
57.3 MG/L	100.0	100.0	100.0	98.0	98.0	98.0	98.0	98.0	92.0	90.0
172 MG/L	100.0	100.0	100.0	100.0	100.0	98.0	96.0	90.0	88.0	84.0
516 MG/L	100.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	90.0	84.0

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SURVIVAL SUMMARY STATISTICS				
DOSE	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	74.0%	78.0%	90.0%	84.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.504N	P=0.780N	P=0.068N	P=0.333N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	603.7 (34.7)	620.5 (26.2)	581.0 (70.4)	601.8 (35.0)
MEAN LIFE SPAN (D) (STANDARD ERROR)	696.4 (11.8)	705.1 (8.5)	714.2 (9.0)	708.6 (8.5)

DOSE	516 MG/L
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	84.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.285N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	604.9 (62.8)
MEAN LIFE SPAN (D) (STANDARD ERROR)	709.1 (11.5)

*** END OF REPORT ***

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