

TDMS No. 20114 - 07
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Sodium dichromate dihydrate (VI)

CAS Number: 7789-12-0

Date Report Requested: 10/04/2007
Time Report Requested: 10:38:19
First Dose M/F: 10/02/02 / 10/02/02
Lab: SRI

F2_R2

C Number: C20114
Lock Date: 10/04/2005
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25021 TSAC
Removal Date Range: ALL
Treatment Groups: Include ALL
TDMSE Version: 1.8.0

25020 NATD

25019 MSAC

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

DOSE = 0 MG/L

TOTAL 50 UNCENSORED DEATHS 22 CENSORED DEATHS 0 TERMINAL 28
UNCENSORED DEATH DAYS:
482 484 520 587 617 639 652 652 666 677 679 679 684 687
689 693 696 696 715 716 721 727
CENSORED DEATH DAYS:
None

DOSE = 14.3 MG/L

TOTAL 50 UNCENSORED DEATHS 20 CENSORED DEATHS 0 TERMINAL 30
UNCENSORED DEATH DAYS:
321 337 345 454 477 559 580 584 595 617 629 636 652 667
687 687 688 706 713 713
CENSORED DEATH DAYS:
None

DOSE = 57.3 MG/L

TOTAL 49 UNCENSORED DEATHS 19 CENSORED DEATHS 0 TERMINAL 30
UNCENSORED DEATH DAYS:
272 310 501 503 521 560 579 595 617 631 631 636 640 652
662 667 673 686 709
CENSORED DEATH DAYS:
None

DOSE = 172 MG/L

TOTAL 50 UNCENSORED DEATHS 14 CENSORED DEATHS 0 TERMINAL 36
UNCENSORED DEATH DAYS:
399 520 521 549 570 570 595 607 625 629 645 692 709 721

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

CENSORED DEATH DAYS:
None

DOSE = 516 MG/L

TOTAL 49 UNCENSORED DEATHS 20 CENSORED DEATHS 0 TERMINAL 29

UNCENSORED DEATH DAYS:

543 557 587 595 595 605 609 617 636 640 652 667 673 686
687 689 696 710 710 711

CENSORED DEATH DAYS:
None

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MALE RATS

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	94.0	92.0	84.0	56.0
14.3 MG/L	100.0	100.0	100.0	94.0	94.0	90.0	90.0	82.0	74.0	60.0
57.3 MG/L	100.0	100.0	100.0	95.9	95.9	95.9	89.8	83.7	69.4	61.2
172 MG/L	100.0	100.0	100.0	100.0	98.0	98.0	94.0	86.0	78.0	72.0
516 MG/L	100.0	100.0	100.0	100.0	100.0	100.0	98.0	87.8	77.6	59.2

(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 729 DAYS

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)	56.0%	60.0%	61.2%	72.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.904N	P=1.000N	P=1.000N	P=0.221N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	652.6 (15.4)	582.4 (28.7)	581.3 (27.2)	596.6 (22.9)
MEAN LIFE SPAN (D) (STANDARD ERROR)	695.4 (8.6)	670.3 (15.3)	671.7 (14.7)	691.9 (10.5)

DOSE	516 MG/L
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	59.2%
SIGNIFICANCE (B) (LIFE TABLE)	P=1.000N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	643.3 (11.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	694.0 (7.7)

- (A) FIRST TERMINAL SACRIFICE
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 (C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE
 (D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)

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FEMALE RATS
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:
489 524 575 580 595 618 618 618 623 631 654 689 689 700
700 707 721
CENSORED DEATH DAYS:
None

DOSE = 14.3 MG/L

TOTAL 50 UNCENSORED DEATHS 18 CENSORED DEATHS 0 TERMINAL 32
UNCENSORED DEATH DAYS:
387 461 554 560 605 618 618 632 646 657 667 667 671 678
686 689 710 718
CENSORED DEATH DAYS:
None

DOSE = 57.3 MG/L

TOTAL 50 UNCENSORED DEATHS 18 CENSORED DEATHS 0 TERMINAL 32
UNCENSORED DEATH DAYS:
454 534 554 571 573 586 602 657 659 662 667 671 687 689
689 689 715 726
CENSORED DEATH DAYS:
None

DOSE = 172 MG/L

TOTAL 50 UNCENSORED DEATHS 14 CENSORED DEATHS 0 TERMINAL 36
UNCENSORED DEATH DAYS:
379 447 493 531 559 567 580 590 618 618 646 653 667 689

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

CENSORED DEATH DAYS:
None

DOSE = 516 MG/L

TOTAL 50 UNCENSORED DEATHS 19 CENSORED DEATHS 0 TERMINAL 31

UNCENSORED DEATH DAYS:

461 472 506 560 567 570 580 583 595 605 647 652 652 667
679 709 715 721 721

CENSORED DEATH DAYS:
None

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 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	100.0	96.0	90.0	78.0	66.0
14.3 MG/L	100.0	100.0	100.0	100.0	98.0	96.0	96.0	90.0	80.0	64.0
57.3 MG/L	100.0	100.0	100.0	100.0	100.0	98.0	96.0	86.0	80.0	64.0
172 MG/L	100.0	100.0	100.0	100.0	98.0	96.0	92.0	84.0	76.0	72.0
516 MG/L	100.0	100.0	100.0	100.0	100.0	96.0	94.0	80.0	74.0	62.0

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FEMALE RATS
 FIRST TERMINAL SACRIFICE AT 729 DAYS

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)	66.0%	64.0%	64.0%	72.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.748	P=0.959	P=0.965	P=0.806N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	631.2 (16.0)	623.6 (20.4)	632.5 (17.3)	574.1 (23.5)
MEAN LIFE SPAN (D) (STANDARD ERROR)	695.8 (8.5)	691.0 (10.2)	694.3 (9.0)	685.6 (11.8)

DOSE	516 MG/L
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	62.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.745
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	613.8 (18.6)
MEAN LIFE SPAN (D) (STANDARD ERROR)	685.2 (10.6)

*** END OF REPORT ***

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- (C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE
- (D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)