

**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 Reqsted:** 10/04/2007

**Time Report Reqsted:** 10:38:19

**First Dose M/F:** 10/02/02 / 10/02/02

**Lab:** SRI

F2\_R2

<b>C Number:</b>	C20114		
<b>Lock Date:</b>	10/04/2005		
<b>Cage Range:</b>	ALL		
<b>Date Range:</b>	ALL		
<b>Reasons For Removal:</b>	25021 TSAC	25020 NATD	25019 MSAC
<b>Removal Date Range:</b>	ALL		
<b>Treatment Groups:</b>	Include ALL		
<b>TDMSE Version:</b>	1.8.0		

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

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**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

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**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

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**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

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

CENSORED DEATH DAYS:  
None

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**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)
<b>0 MG/L</b>	100.0	100.0	100.0	100.0	100.0	96.0	94.0	92.0	84.0	56.0
<b>14.3 MG/L</b>	100.0	100.0	100.0	94.0	94.0	90.0	90.0	82.0	74.0	60.0
<b>57.3 MG/L</b>	100.0	100.0	100.0	95.9	95.9	95.9	89.8	83.7	69.4	61.2
<b>172 MG/L</b>	100.0	100.0	100.0	100.0	98.0	98.0	94.0	86.0	78.0	72.0
<b>516 MG/L</b>	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

<b>SURVIVAL SUMMARY STATISTICS</b>				
<b>DOSE</b>	0 MG/L	14.3 MG/L	57.3 MG/L	172 MG/L
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	56.0%	60.0%	61.2%	72.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.904N	P=1.000N	P=1.000N	P=0.221N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	652.6 (15.4)	582.4 (28.7)	581.3 (27.2)	596.6 (22.9)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	695.4 (8.6)	670.3 (15.3)	671.7 (14.7)	691.9 (10.5)

  

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

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**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

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**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

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**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

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**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

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**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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**FEMALE 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	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

- (A) FIRST TERMINAL SACRIFICE
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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
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	66.0%	64.0%	64.0%	72.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.748	P=0.959	P=0.965	P=0.806N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	631.2 (16.0)	623.6 (20.4)	632.5 (17.3)	574.1 (23.5)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	695.8 (8.5)	691.0 (10.2)	694.3 (9.0)	685.6 (11.8)

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

\*\*\* END OF REPORT \*\*\*

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