

**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)

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**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

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**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

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**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

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**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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INDIVIDUAL SURVIVAL TIMES (DAYS)

CENSORED DEATH DAYS:  
None

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**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) |
| <b>0 MG/L</b>     | 100.0       | 100.0 | 100.0 | 100.0 | 100.0 | 96.0  | 96.0 | 96.0 | 78.0 | 66.0   |
| <b>14.3 MG/L</b>  | 100.0       | 100.0 | 100.0 | 98.0  | 98.0  | 98.0  | 96.0 | 90.0 | 76.0 | 70.0   |
| <b>28.6 MG/L</b>  | 98.0        | 98.0  | 98.0  | 98.0  | 98.0  | 96.0  | 92.0 | 84.0 | 76.0 | 70.0   |
| <b>85.7 MG/L</b>  | 100.0       | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.0 | 94.0 | 86.0 | 76.0   |
| <b>257.4 MG/L</b> | 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

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

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**MALE MICE**  
 FIRST TERMINAL SACRIFICE AT 729 DAYS

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

  

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

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Species/Strain: MICE/B6C3F1

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

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

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**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

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**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

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**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

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**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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| <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><br>(KAPLAN-MEIER)         | 74.0%           | 78.0%           | 90.0%           | 84.0%           |
| <b>SIGNIFICANCE (B)</b><br>(LIFE TABLE)                   | P=0.504N        | P=0.780N        | P=0.068N        | P=0.333N        |
| <b>MEAN DAY OF NATURAL DEATHS (C)</b><br>(STANDARD ERROR) | 603.7<br>(34.7) | 620.5<br>(26.2) | 581.0<br>(70.4) | 601.8<br>(35.0) |
| <b>MEAN LIFE SPAN (D)</b><br>(STANDARD ERROR)             | 696.4<br>(11.8) | 705.1<br>(8.5)  | 714.2<br>(9.0)  | 708.6<br>(8.5)  |

  

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

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

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