

**TDMS No.** 96019-05  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** RATS/F 344

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)  
**CAS Number:** 5589-96-8  
**Pathologist:** GILES, H. - HEATH, J. - Blackshear, P.  
F1\_R2

**Date Report Reqsted:** 03/28/2006  
**Time Report Reqsted:** 15:08:35  
**First Dose M/F:** 09/26/01 / 09/26/01  
**Lab:** SRI

|                             |                              |                     |                          |
|-----------------------------|------------------------------|---------------------|--------------------------|
| <b>C Number:</b>            | C96019                       |                     |                          |
| <b>Lock Date:</b>           | 07/14/2004                   |                     |                          |
| <b>Cage Range:</b>          | 1 - 9999                     |                     |                          |
| <b>Date Range:</b>          | 1-JAN-1940 to 17-SEP-2040    |                     |                          |
| <b>Reasons For Removal:</b> | 25021 Terminal Sacrifice     | 25020 Natural Death | 25019 Moribund Sacrifice |
| <b>Removal Date Range:</b>  | JAN /1 /1940 - SEP /17 /2040 |                     |                          |
| <b>Treatment Groups:</b>    | Include 1 0 MG/L             | Include 2 0 MG/L    | Include 3 250 MG/L       |
|                             | Include 4 250 MG/L           | Include 5 500 MG/L  | Include 6 500 MG/L       |
|                             | Include 7 1000 MG/L          | Include 8 1000 MG/L |                          |

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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 19 | CENSORED DEATHS 0       | TERMINAL 31 |
| UNCENSORED DEATHS |                      |                         |             |
| 337 504 525       | 525 586 601 608 609  | 614 631 637 647 668 679 |             |
| 692 701 703       | 715 726              |                         |             |
| CENSORED DEATHS   |                      |                         |             |
| None              |                      |                         |             |

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**DOSE = 250 MG/L**

|                   |                      |                         |             |
|-------------------|----------------------|-------------------------|-------------|
| TOTAL 50          | UNCENSORED DEATHS 24 | CENSORED DEATHS 0       | TERMINAL 26 |
| UNCENSORED DEATHS |                      |                         |             |
| 504 525 540       | 549 555 576 596 609  | 609 618 618 631 637 666 |             |
| 668 668 671       | 679 694 702 703 713  | 713 727                 |             |
| CENSORED DEATHS   |                      |                         |             |
| None              |                      |                         |             |

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**DOSE = 500 MG/L**

|                   |                      |                         |             |
|-------------------|----------------------|-------------------------|-------------|
| TOTAL 50          | UNCENSORED DEATHS 25 | CENSORED DEATHS 0       | TERMINAL 25 |
| UNCENSORED DEATHS |                      |                         |             |
| 321 366 450       | 479 549 555 561 575  | 581 596 607 609 609 631 |             |
| 646 652 667       | 674 679 679 696 704  | 717 727 727             |             |
| CENSORED DEATHS   |                      |                         |             |
| None              |                      |                         |             |

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**DOSE = 1000 MG/L**

|                   |                      |                   |             |
|-------------------|----------------------|-------------------|-------------|
| TOTAL 50          | UNCENSORED DEATHS 21 | CENSORED DEATHS 0 | TERMINAL 29 |
| UNCENSORED DEATHS |                      |                   |             |

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**MALE RATS**

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

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 357 | 380 | 434 | 468 | 510 | 521 | 556 | 588 | 630 | 631 | 631 | 639 | 652 | 667 |
| 674 | 682 | 682 | 687 | 699 | 717 | 727 |     |     |     |     |     |     |     |

CENSORED DEATHS  
None

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

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**Lab:** SRI

**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 | 98.0  | 98.0  | 98.0  | 92.0 | 88.0 | 76.0 | 62.0   |
| <b>250 MG/L</b>  | 100.0       | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 94.0 | 86.0 | 74.0 | 52.0   |
| <b>500 MG/L</b>  | 100.0       | 100.0 | 100.0 | 98.0  | 96.0  | 92.0  | 92.0 | 80.0 | 68.0 | 50.0   |
| <b>1000 MG/L</b> | 100.0       | 100.0 | 100.0 | 98.0  | 96.0  | 92.0  | 88.0 | 84.0 | 74.0 | 58.0   |

- (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)

TDMS No. 96019-05  
Test Type: CHRONIC  
Route: DOSED WATER  
Species/Strain: RATS/F 344

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**Pathologist:** GILES, H. - HEATH, J. - Blackshear, P.  
**MALE RATS**  
FIRST TERMINAL SACRIFICE AT 729 DAYS

**Date Report Requested:** 03/28/2006  
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| <b>SURVIVAL SUMMARY STATISTICS</b>                        |                 |                 |                 |                 |
|---|-----------------|-----------------|-----------------|-----------------|
| <b>DOSE</b>   | 0 MG/L          | 250 MG/L        | 500 MG/L        | 1000 MG/L       |
| <b>SURVIVAL AT END OF STUDY</b><br>(KAPLAN-MEIER)         | 62.0%           | 52.0%           | 50.0%           | 58.0%           |
| <b>SIGNIFICANCE (B)</b><br>(LIFE TABLE)                   | P=0.826         | P=0.434         | P=0.277         | P=0.774         |
| <b>MEAN DAY OF NATURAL DEATHS (C)</b><br>(STANDARD ERROR) | 616.2<br>(21.6) | 632.1<br>(13.4) | 602.3<br>(21.3) | 596.8<br>(24.2) |
| <b>MEAN LIFE SPAN (D)</b><br>(STANDARD ERROR)             | 686.1<br>(11.2) | 682.5<br>(9.4)  | 665.6<br>(13.9) | 673.5<br>(13.7) |

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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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 Test Type: CHRONIC  
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 Species/Strain: RATS/F 344

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
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**Lab:** SRI

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

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**DOSE = 0 MG/L**

|                   |                      |                   |             |
|-------------------|----------------------|-------------------|-------------|
| TOTAL 50          | UNCENSORED DEATHS 16 | CENSORED DEATHS 0 | TERMINAL 34 |
| UNCENSORED DEATHS |                      |                   |             |
| 411 468 483       | 505 505 525 612 634  | 637 668 668 668   | 679 682     |
| 694 725           |                      |                   |             |
| CENSORED DEATHS   |                      |                   |             |
| None              |                      |                   |             |

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**DOSE = 250 MG/L**

|                   |                      |                   |             |
|-------------------|----------------------|-------------------|-------------|
| TOTAL 50          | UNCENSORED DEATHS 19 | CENSORED DEATHS 0 | TERMINAL 31 |
| UNCENSORED DEATHS |                      |                   |             |
| 395 493 507       | 525 568 584 596 610  | 618 626 645 674   | 679 679     |
| 679 682 682       | 699 707              |                   |             |
| CENSORED DEATHS   |                      |                   |             |
| None              |                      |                   |             |

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**DOSE = 500 MG/L**

|                   |                      |                   |             |
|-------------------|----------------------|-------------------|-------------|
| TOTAL 50          | UNCENSORED DEATHS 13 | CENSORED DEATHS 0 | TERMINAL 37 |
| UNCENSORED DEATHS |                      |                   |             |
| 30 478 540        | 627 629 631 637 652  | 668 668 709 717   | 727         |
| CENSORED DEATHS   |                      |                   |             |
| None              |                      |                   |             |

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**DOSE = 1000 MG/L**

|                   |                      |                   |             |
|-------------------|----------------------|-------------------|-------------|
| TOTAL 50          | UNCENSORED DEATHS 15 | CENSORED DEATHS 0 | TERMINAL 35 |
| UNCENSORED DEATHS |                      |                   |             |
| 258 381 604       | 618 636 637 660 668  | 668 668 682 687   | 692 715     |

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

717  
CENSORED DEATHS  
None

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**KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)**

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| 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 | 98.0 | 94.0 | 88.0 | 88.0 | 82.0 | 68.0   |
| <b>250 MG/L</b>  | 100.0       | 100.0 | 100.0 | 100.0 | 98.0 | 98.0 | 92.0 | 86.0 | 78.0 | 62.0   |
| <b>500 MG/L</b>  | 98.0        | 98.0  | 98.0  | 98.0  | 98.0 | 96.0 | 94.0 | 94.0 | 84.0 | 74.0   |
| <b>1000 MG/L</b> | 100.0       | 100.0 | 98.0  | 98.0  | 96.0 | 96.0 | 96.0 | 94.0 | 86.0 | 70.0   |

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Lab: SRI

| SURVIVAL SUMMARY STATISTICS                               |                 |                 |                 |                 |
|---|-----------------|-----------------|-----------------|-----------------|
| DOSE  | 0 MG/L          | 250 MG/L        | 500 MG/L        | 1000 MG/L       |
| <b>SURVIVAL AT END OF STUDY</b><br>(KAPLAN-MEIER)         | 68.0%           | 62.0%           | 74.0%           | 70.0%           |
| <b>SIGNIFICANCE (B)</b><br>(LIFE TABLE)                   | P=0.572N        | P=0.694         | P=0.613N        | P=0.901N        |
| <b>MEAN DAY OF NATURAL DEATHS (C)</b><br>(STANDARD ERROR) | 597.8<br>(24.5) | 613.1<br>(19.3) | 593.3<br>(50.7) | 619.4<br>(33.1) |
| <b>MEAN LIFE SPAN (D)</b><br>(STANDARD ERROR)             | 687.0<br>(11.6) | 684.9<br>(10.8) | 693.7<br>(15.4) | 696.1<br>(12.0) |

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

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