

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

| | | | |
|-----------------------------|------------------------------|---------------------|--------------------------|
| C Number: | C96019 | | |
| Lock Date: | 07/14/2004 | | |
| Cage Range: | 1 - 9999 | | |
| Date Range: | 1-JAN-1940 to 17-SEP-2040 | | |
| Reasons For Removal: | 25021 Terminal Sacrifice | 25020 Natural Death | 25019 Moribund Sacrifice |
| Removal Date Range: | JAN /1 /1940 - SEP /17 /2040 | | |
| Treatment Groups: | 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 | |

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.

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

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

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 | | | |

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 | | | |

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 | | | |

DOSE = 1000 MG/L

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

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.

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

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

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.
MALE RATS
 FIRST TERMINAL SACRIFICE AT 729 DAYS

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

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 | 98.0 | 98.0 | 98.0 | 92.0 | 88.0 | 76.0 | 62.0 |
| 250 MG/L | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 94.0 | 86.0 | 74.0 | 52.0 |
| 500 MG/L | 100.0 | 100.0 | 100.0 | 98.0 | 96.0 | 92.0 | 92.0 | 80.0 | 68.0 | 50.0 |
| 1000 MG/L | 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

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
 WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.
MALE RATS
 FIRST TERMINAL SACRIFICE AT 729 DAYS

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

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

- (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

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

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

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

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 | | | |

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 | | | |

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 | | | |

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 |

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.

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

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

717
CENSORED DEATHS
None

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.
FEMALE RATS
 FIRST TERMINAL SACRIFICE AT 729 DAYS

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

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

- (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

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
WATER DISINFECTION BYPRODUCTS (BROMOCHLOROACETIC ACID)
CAS Number: 5589-96-8
Pathologist: GILES, H. - HEATH, J. - Blackshear, P.
FEMALE RATS
FIRST TERMINAL SACRIFICE AT 729 DAYS

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

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

*** END OF REPORT ***

- (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)