

**TDMS No.** 96015 - 05  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** RATS/F 344

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
Water disinfection byproducts (Dibromoacetonitrile)  
**CAS Number:** 3252-43-5

**Date Report Reqsted:** 08/21/2007  
**Time Report Reqsted:** 09:21:42  
**First Dose M/F:** 09/05/01 / 09/05/01  
**Lab:** SRI

F\_2 R2

**C Number:** C96015  
**Lock Date:** 04/30/2004  
**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 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 DEATH DAYS:  
491 507 508 549 563 606 610 619 627 652 652 679 696 697  
706 707 710 716 721  
CENSORED DEATH DAYS:  
None

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**DOSE = 50 MG/L**

TOTAL 50                      UNCENSORED DEATHS 17                      CENSORED DEATHS 0                      TERMINAL 33  
UNCENSORED DEATH DAYS:  
461 496 535 559 563 580 594 664 671 675 689 695 696 706  
710 713 714  
CENSORED DEATH DAYS:  
None

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**DOSE = 100 MG/L**

TOTAL 50                      UNCENSORED DEATHS 25                      CENSORED DEATHS 0                      TERMINAL 25  
UNCENSORED DEATH DAYS:  
251 494 496 568 583 583 616 619 622 647 652 662 664 671  
671 674 680 691 697 699 709 710 718 720 720  
CENSORED DEATH DAYS:  
None

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**DOSE = 200 MG/L**

TOTAL 50                      UNCENSORED DEATHS 15                      CENSORED DEATHS 0                      TERMINAL 35  
UNCENSORED DEATH DAYS:  
13 383 538 592 636 680 681 689 695 699 704 710 714 720  
722

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INDIVIDUAL SURVIVAL TIMES (DAYS)

CENSORED DEATH DAYS:  
None

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

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

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<b>DOSE</b>	<b>TIME (DAYS)</b>									
	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	100.0	94.0	90.0	78.0	62.0
<b>50 MG/L</b>	100.0	100.0	100.0	100.0	100.0	98.0	94.0	86.0	84.0	66.0
<b>100 MG/L</b>	100.0	100.0	98.0	98.0	98.0	98.0	94.0	88.0	74.0	50.0
<b>200 MG/L</b>	98.0	98.0	98.0	98.0	96.0	96.0	94.0	92.0	90.0	70.0

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(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	50 MG/L	100 MG/L	200 MG/L
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	62.0%	66.0%	50.0%	70.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.537N	P=0.824N	P=0.325	P=0.452N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	632.4 (17.7)	630.6 (20.3)	632.7 (20.4)	611.7 (48.8)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	692.3 (9.4)	695.6 (9.5)	680.8 (12.2)	693.8 (16.2)

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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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Species/Strain: RATS/F 344

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First Dose M/F: 09/05/01 / 09/05/01  
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 21                      CENSORED DEATHS 0                      TERMINAL 29  
UNCENSORED DEATH DAYS:  
400 535 550 551 562 563 583 594 608 626 656 670 671 671  
671 689 696 702 714 714 722  
CENSORED DEATH DAYS:  
None

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**DOSE = 50 MG/L**

TOTAL 50                      UNCENSORED DEATHS 15                      CENSORED DEATHS 0                      TERMINAL 35  
UNCENSORED DEATH DAYS:  
561 576 596 600 608 623 636 664 666 672 679 689 714 714  
714  
CENSORED DEATH DAYS:  
None

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**DOSE = 100 MG/L**

TOTAL 50                      UNCENSORED DEATHS 21                      CENSORED DEATHS 0                      TERMINAL 29  
UNCENSORED DEATH DAYS:  
520 566 594 596 596 649 652 664 664 672 672 672 699 701  
703 706 707 712 714 714 725  
CENSORED DEATH DAYS:  
None

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**DOSE = 200 MG/L**

TOTAL 50                      UNCENSORED DEATHS 19                      CENSORED DEATHS 0                      TERMINAL 31  
UNCENSORED DEATH DAYS:  
380 477 551 590 596 629 648 657 671 671 671 672 701 702  
710 714 714 714 714

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INDIVIDUAL SURVIVAL TIMES (DAYS)

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)
<b>0 MG/L</b>	100.0	100.0	100.0	100.0	98.0	98.0	96.0	84.0	78.0	58.0
<b>50 MG/L</b>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.0	84.0	70.0
<b>100 MG/L</b>	100.0	100.0	100.0	100.0	100.0	100.0	98.0	90.0	82.0	58.0
<b>200 MG/L</b>	100.0	100.0	100.0	100.0	98.0	96.0	96.0	90.0	84.0	62.0

- (A) FIRST TERMINAL SACRIFICE
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<b>SURVIVAL SUMMARY STATISTICS</b>				
<b>DOSE</b>	0 MG/L	50 MG/L	100 MG/L	200 MG/L
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	58.0%	70.0%	58.0%	62.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.935N	P=0.252N	P=0.930N	P=0.692N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	626.1 (17.6)	647.5 (13.3)	661.8 (12.3)	641.2 (20.6)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	685.8 (10.3)	704.5 (6.6)	700.8 (7.0)	695.6 (9.8)

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

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