

**TDMS No.** 20011 - 05

**Test Type:** CHRONIC

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** RATS/F 344

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

1-Bromopropane

**CAS Number:** 106-94-5

**Date Report Requested:** 07/09/2008

**Time Report Requested:** 10:20:06

**First Dose M/F:** 07/14/03 / 07/14/03

**Lab:** BNW

**C Number:** C20011  
**Lock Date:** 06/15/2006  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.0.0

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MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 50                      UNCENSORED DEATHS 27                      CENSORED DEATHS 0                      TERMINAL 23

UNCENSORED DEATH DAYS:

429 501 534 582 586 591 596 598 614 635 646 646 653 659  
659 659 660 660 668 669 683 686 688 703 711 716 724

CENSORED DEATH DAYS:

None

DOSE = 125 PPM

TOTAL 50                      UNCENSORED DEATHS 24                      CENSORED DEATHS 0                      TERMINAL 26

UNCENSORED DEATH DAYS:

316 505 528 540 560 562 568 569 585 608 611 611 618 624  
627 648 660 663 666 687 699 708 711 719

CENSORED DEATH DAYS:

None

DOSE = 250 PPM

TOTAL 50                      UNCENSORED DEATHS 32                      CENSORED DEATHS 0                      TERMINAL 18

UNCENSORED DEATH DAYS:

418 488 514 520 534 534 536 554 561 575 578 590 603 606  
608 612 614 618 618 633 658 666 668 682 688 690 690 697  
698 699 709 725

CENSORED DEATH DAYS:

None

DOSE = 500 PPM

TOTAL 50                      UNCENSORED DEATHS 37                      CENSORED DEATHS 0                      TERMINAL 13

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INDIVIDUAL SURVIVAL TIMES (DAYS)

UNCENSORED DEATH DAYS:

394	422	446	449	453	484	500	527	562	562	575	577	577	581
611	624	635	635	639	642	653	659	660	660	660	663	666	670
682	687	688	697	701	702	709	710	725					

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)
CONTROL	100.0	100.0	100.0	100.0	100.0	98.0	94.0	84.0	64.0	46.0
125 PPM	100.0	100.0	100.0	98.0	98.0	98.0	92.0	82.0	64.0	52.0
250 PPM	100.0	100.0	100.0	100.0	98.0	98.0	86.0	74.0	58.0	36.0
500 PPM	100.0	100.0	100.0	100.0	96.0	88.0	84.0	72.0	48.0	26.0

(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 RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	125 PPM	250 PPM	500 PPM
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	46.0%	52.0%	36.0%	26.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.009	P=0.844N	P=0.262	P=0.033
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	635.4 (13.0)	608.0 (17.7)	612.0 (13.2)	607.8 (15.1)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	678.5 (9.7)	670.9 (12.1)	654.1 (11.6)	639.3 (13.5)

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 730 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 50                      UNCENSORED DEATHS 16                      CENSORED DEATHS 0                      TERMINAL 34

UNCENSORED DEATH DAYS:

438 493 612 633 633 638 639 647 660 677 683 687 694 701  
716 726

CENSORED DEATH DAYS:

None

DOSE = 125 PPM

TOTAL 50                      UNCENSORED DEATHS 17                      CENSORED DEATHS 0                      TERMINAL 33

UNCENSORED DEATH DAYS:

433 491 528 575 577 590 603 618 628 632 635 659 687 697  
708 716 719

CENSORED DEATH DAYS:

None

DOSE = 250 PPM

TOTAL 50                      UNCENSORED DEATHS 20                      CENSORED DEATHS 0                      TERMINAL 30

UNCENSORED DEATH DAYS:

417 451 534 541 547 554 606 607 607 618 628 642 680 681  
684 684 688 688 694 718

CENSORED DEATH DAYS:

None

DOSE = 500 PPM

TOTAL 50                      UNCENSORED DEATHS 24                      CENSORED DEATHS 2                      TERMINAL 24

UNCENSORED DEATH DAYS:

38 142 386 431 450 498 529 578 586 586 590 606 611 616  
619 626 627 660 682 686 688 715 719 724

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**FEMALE RATS**

FIRST TERMINAL SACRIFICE AT 730 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

CENSORED DEATH DAYS:

453    501

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FIRST TERMINAL SACRIFICE AT 730 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	730(A)
CONTROL	100.0	100.0	100.0	100.0	100.0	98.0	96.0	96.0	82.0	68.0
125 PPM	100.0	100.0	100.0	100.0	100.0	98.0	94.0	86.0	76.0	66.0
250 PPM	100.0	100.0	100.0	100.0	98.0	96.0	92.0	88.0	76.0	60.0
500 PPM	98.0	96.0	96.0	96.0	94.0	90.0	85.9	77.5	62.8	50.3

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SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	125 PPM	250 PPM	500 PPM
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	68.0%	66.0%	60.0%	50.3%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.028	P=0.858	P=0.419	P=0.054
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	642.3 (19.2)	617.4 (19.6)	613.5 (18.7)	558.0 (34.8)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	701.9 (8.4)	691.7 (10.0)	683.4 (11.0)	637.3 (21.0)

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

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