

TDMS No. 97003 - 07
Test Type: CHRONIC
Route: SKIN APPLICATION
Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

1,2-Dibromo-2,4-dicyanobutane

CAS Number: 35691-65-7

Date Report Reqsted: 08/21/2007

Time Report Reqsted: 12:46:31

First Dose M/F: 07/10/02 / 07/11/02

Lab: BAT

F_1.Rev.1_R2

C Number: C97003D
Lock Date: 03/23/2005
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 RATS
FIRST TERMINAL SACRIFICE AT 728 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 MG/KG

TOTAL 50 UNCENSORED DEATHS 25 CENSORED DEATHS 0 TERMINAL 25
UNCENSORED DEATH DAYS:
451 542 552 554 561 562 566 603 605 609 612 631 650 661
671 672 672 675 679 696 709 709 713 714 727
CENSORED DEATH DAYS:
None

DOSE = 2 MG/KG

TOTAL 50 UNCENSORED DEATHS 23 CENSORED DEATHS 0 TERMINAL 27
UNCENSORED DEATH DAYS:
286 384 433 486 500 506 519 525 541 547 558 569 574 582
601 605 629 672 679 688 688 688 693
CENSORED DEATH DAYS:
None

DOSE = 6 MG/KG

TOTAL 50 UNCENSORED DEATHS 23 CENSORED DEATHS 0 TERMINAL 27
UNCENSORED DEATH DAYS:
325 482 490 503 523 545 570 582 584 612 629 631 645 645
653 665 666 679 691 699 702 717 724
CENSORED DEATH DAYS:
None

DOSE = 18 MG/KG

TOTAL 50 UNCENSORED DEATHS 13 CENSORED DEATHS 0 TERMINAL 37
UNCENSORED DEATH DAYS:
479 612 612 617 629 637 654 679 688 699 714 717 721

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CENSORED DEATH DAYS:
None

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FIRST TERMINAL SACRIFICE AT 728 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	728(A)
0 MG/KG	100.0	100.0	100.0	100.0	100.0	98.0	96.0	82.0	72.0	50.0
2 MG/KG	100.0	100.0	100.0	98.0	96.0	94.0	82.0	68.0	66.0	54.0
6 MG/KG	100.0	100.0	100.0	98.0	98.0	96.0	88.0	82.0	68.0	54.0
18 MG/KG	100.0	100.0	100.0	100.0	100.0	98.0	98.0	98.0	86.0	74.0

(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 728 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	50.0%	54.0%	54.0%	74.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.009N	P=1.000	P=0.917N	P=0.015N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	631.8 (14.0)	563.2 (21.8)	607.0 (20.0)	650.6 (18.3)
MEAN LIFE SPAN (D) (STANDARD ERROR)	679.9 (9.8)	652.2 (15.4)	672.4 (12.5)	707.9 (6.7)

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

DOSE = 0 MG/KG

TOTAL 50 UNCENSORED DEATHS 21 CENSORED DEATHS 0 TERMINAL 29
UNCENSORED DEATH DAYS:
553 565 568 575 609 617 617 628 628 632 649 673 687 687
688 690 695 698 701 716 723
CENSORED DEATH DAYS:
None

DOSE = 2 MG/KG

TOTAL 50 UNCENSORED DEATHS 18 CENSORED DEATHS 0 TERMINAL 32
UNCENSORED DEATH DAYS:
390 462 466 467 485 561 561 573 596 597 616 629 643 649
678 698 723 723
CENSORED DEATH DAYS:
None

DOSE = 6 MG/KG

TOTAL 50 UNCENSORED DEATHS 26 CENSORED DEATHS 0 TERMINAL 24
UNCENSORED DEATH DAYS:
442 453 496 513 530 561 561 581 589 596 602 603 617 617
626 630 632 646 652 657 664 687 687 713 716 726
CENSORED DEATH DAYS:
None

DOSE = 18 MG/KG

TOTAL 50 UNCENSORED DEATHS 19 CENSORED DEATHS 0 TERMINAL 31
UNCENSORED DEATH DAYS:
112 246 309 467 489 496 499 561 569 596 625 642 652 653
656 664 664 698 716

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CENSORED DEATH DAYS:
None

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KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	729(A)
0 MG/KG	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.0	78.0	58.0
2 MG/KG	100.0	100.0	100.0	100.0	98.0	90.0	90.0	80.0	72.0	64.0
6 MG/KG	100.0	100.0	100.0	100.0	100.0	96.0	90.0	76.0	58.0	48.0
18 MG/KG	100.0	98.0	96.0	94.0	94.0	92.0	86.0	80.0	66.0	62.0

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FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 MG/KG	2 MG/KG	6 MG/KG	18 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	58.0%	64.0%	48.0%	62.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=1.000	P=0.863N	P=0.245	P=1.000N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	647.6 (11.6)	584.3 (23.1)	607.6 (14.9)	542.8 (37.5)
MEAN LIFE SPAN (D) (STANDARD ERROR)	694.8 (7.5)	676.9 (12.8)	665.9 (11.6)	658.3 (19.1)

*** END OF REPORT ***

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