

TDMS No. 99027 - 03
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
CHROMIUM PICOLINATE MONOHYDRATE
CAS Number: 27882-76-4

Date Report Reqsted: 03/16/2007
Time Report Reqsted: 08:39:18
First Dose M/F: 08/12/02 / 08/12/02
Lab: SRI

F1_R2

C Number: C99027
Lock Date: 05/03/2005
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
TDMSE Version: 1.7.0

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

DOSE = 0 PPM

TOTAL 50 UNCENSORED DEATHS 13 CENSORED DEATHS 0 TERMINAL 37
UNCENSORED DEATH DAYS:
486 516 528 565 639 653 660 682 698 711 715 715 715
CENSORED DEATH DAYS:
None

DOSE = 2000 PPM

TOTAL 50 UNCENSORED DEATHS 14 CENSORED DEATHS 0 TERMINAL 36
UNCENSORED DEATH DAYS:
50 195 564 569 579 607 618 628 642 657 674 690 700 720
CENSORED DEATH DAYS:
None

DOSE = 10000 PPM

TOTAL 50 UNCENSORED DEATHS 15 CENSORED DEATHS 0 TERMINAL 35
UNCENSORED DEATH DAYS:
472 528 575 618 638 646 675 690 696 696 698 701 704 705
708
CENSORED DEATH DAYS:
None

DOSE = 50000 PPM

TOTAL 50 UNCENSORED DEATHS 22 CENSORED DEATHS 0 TERMINAL 28
UNCENSORED DEATH DAYS:
360 476 509 528 539 565 582 622 628 628 646 662 676 676
682 698 698 701 705 708 715 725

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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)
0 PPM	100.0	100.0	100.0	100.0	100.0	100.0	94.0	92.0	86.0	74.0
2000 PPM	98.0	98.0	96.0	96.0	96.0	96.0	96.0	90.0	80.0	72.0
10000 PPM	100.0	100.0	100.0	100.0	100.0	98.0	96.0	94.0	88.0	70.0
50000 PPM	100.0	100.0	100.0	98.0	98.0	96.0	90.0	86.0	76.0	56.0

- (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	0 PPM	2000 PPM	10000 PPM	50000 PPM
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	74.0%	72.0%	70.0%	56.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.041	P=0.897	P=0.783	P=0.077
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	637.2 (23.3)	563.8 (52.2)	650.0 (18.8)	624.0 (20.1)
MEAN LIFE SPAN (D) (STANDARD ERROR)	705.1 (8.2)	682.7 (17.7)	705.3 (7.5)	682.8 (11.5)

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

DOSE = 0 PPM

TOTAL 50 UNCENSORED DEATHS 14 CENSORED DEATHS 0 TERMINAL 36
UNCENSORED DEATH DAYS:
396 410 579 586 597 647 656 666 666 669 701 704 710 727
CENSORED DEATH DAYS:
None

DOSE = 2000 PPM

TOTAL 50 UNCENSORED DEATHS 15 CENSORED DEATHS 0 TERMINAL 35
UNCENSORED DEATH DAYS:
490 528 608 646 647 647 652 666 666 666 666 684 698 701
707
CENSORED DEATH DAYS:
None

DOSE = 10000 PPM

TOTAL 50 UNCENSORED DEATHS 14 CENSORED DEATHS 0 TERMINAL 36
UNCENSORED DEATH DAYS:
432 474 476 600 607 634 646 647 653 654 669 669 669 708
CENSORED DEATH DAYS:
None

DOSE = 50000 PPM

TOTAL 50 UNCENSORED DEATHS 10 CENSORED DEATHS 0 TERMINAL 40
UNCENSORED DEATH DAYS:
586 603 604 604 646 669 669 675 690 723
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)
0 PPM	100.0	100.0	100.0	100.0	96.0	96.0	96.0	90.0	86.0	72.0
2000 PPM	100.0	100.0	100.0	100.0	100.0	100.0	96.0	96.0	86.0	70.0
10000 PPM	100.0	100.0	100.0	100.0	100.0	94.0	94.0	92.0	80.0	72.0
50000 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	92.0	90.0	80.0

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SURVIVAL SUMMARY STATISTICS

DOSE	0 PPM	2000 PPM	10000 PPM	50000 PPM
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	72.0%	70.0%	72.0%	80.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.294N	P=0.981	P=1.000	P=0.453N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	622.4 (27.7)	644.8 (15.8)	609.9 (22.9)	646.9 (14.4)
MEAN LIFE SPAN (D) (STANDARD ERROR)	699.2 (10.2)	703.7 (7.2)	695.6 (9.9)	712.6 (5.4)

*** END OF REPORT ***

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