

TDMS No. 20304 - 01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/SD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
TEF evaluation (PCB 118)
CAS Number: 31508-00-6

Date Report Requested: 06/26/2008
Time Report Requested: 12:05:16
First Dose M/F: NA / 03/26/04
Lab: BAT

FEMALE RATS
FIRST TERMINAL SACRIFICE AT 733 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 UG/KG

TOTAL 52 UNCENSORED DEATHS 31 CENSORED DEATHS 0 TERMINAL 21
UNCENSORED DEATH DAYS:
119 291 320 378 440 443 446 495 495 503 503 503 512 516
516 561 561 575 575 593 617 624 651 652 658 658 662 669
692 701 701
CENSORED DEATH DAYS:
None

DOSE = 100 UG/KG

TOTAL 52 UNCENSORED DEATHS 31 CENSORED DEATHS 1 TERMINAL 20
UNCENSORED DEATH DAYS:
28 53 265 298 302 341 357 386 482 484 495 503 571 571
575 602 602 608 620 637 658 658 665 672 672 674 692 706
708 723 728
CENSORED DEATH DAYS:
579

DOSE = 220 UG/KG

TOTAL 52 UNCENSORED DEATHS 27 CENSORED DEATHS 0 TERMINAL 25
UNCENSORED DEATH DAYS:
163 183 197 229 393 412 433 446 453 469 504 545 575 589
595 617 617 645 652 652 658 687 694 694 701 707 713
CENSORED DEATH DAYS:
None

DOSE = 460 UG/KG

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INDIVIDUAL SURVIVAL TIMES (DAYS)

TOTAL 52 UNCENSORED DEATHS 22 CENSORED DEATHS 0 TERMINAL 30
UNCENSORED DEATH DAYS:
238 300 412 457 484 571 575 582 582 593 593 602 607 627
643 655 658 677 727 729 730 731
CENSORED DEATH DAYS:
None

DOSE = 1000 UG/KG

TOTAL 52 UNCENSORED DEATHS 24 CENSORED DEATHS 0 TERMINAL 28
UNCENSORED DEATH DAYS:
64 298 407 421 480 484 487 516 530 531 551 561 586 593
602 602 642 652 669 674 678 680 718 725
CENSORED DEATH DAYS:
None

DOSE = 4600 UG/KG

TOTAL 52 UNCENSORED DEATHS 27 CENSORED DEATHS 0 TERMINAL 25
UNCENSORED DEATH DAYS:
54 65 71 75 158 433 459 484 484 567 617 620 623 642
652 672 672 673 677 687 692 697 699 711 711 718 727
CENSORED DEATH DAYS:
None

DOSE = 4600 UG/KG STOP

TOTAL 50 UNCENSORED DEATHS 24 CENSORED DEATHS 1 TERMINAL 25
UNCENSORED DEATH DAYS:
160 302 433 545 545 567 567 575 582 589 617 630 642 657
671 671 672 680 694 696 713 713 718 725

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INDIVIDUAL SURVIVAL TIMES (DAYS)

CENSORED DEATH DAYS:
207

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FEMALE RATS
 FIRST TERMINAL SACRIFICE AT 733 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	733(A)
0 UG/KG	100.0	98.1	98.1	94.2	92.3	86.5	71.2	61.5	48.1	40.4
100 UG/KG	96.2	96.2	94.2	86.5	84.6	80.8	76.9	67.2	55.3	39.5
220 UG/KG	100.0	98.1	92.3	92.3	88.5	80.8	76.9	71.2	59.6	48.1
460 UG/KG	100.0	100.0	98.1	96.2	94.2	90.4	90.4	76.9	67.3	57.7
1000 UG/KG	98.1	98.1	98.1	96.2	92.3	88.5	80.8	69.2	65.4	53.8
4600 UG/KG	92.3	90.4	90.4	90.4	90.4	82.7	82.7	80.8	71.2	48.1
4600 UG/KG STOP	100.0	98.0	98.0	96.0	96.0	93.9	89.8	79.6	71.5	51.0

- (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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 FIRST TERMINAL SACRIFICE AT 733 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 UG/KG	100 UG/KG	220 UG/KG	460 UG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	40.4%	39.5%	48.1%	57.7%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.377N	P=1.000N	P=0.474N	P=0.061N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	536.5 (23.9)	527.0 (33.9)	526.8 (33.2)	580.6 (28.1)
MEAN LIFE SPAN (D) (STANDARD ERROR)	615.8 (19.6)	607.2 (24.4)	625.9 (22.4)	668.5 (15.8)

DOSE	1000 UG/KG	4600 UG/KG	4600 UG/KG STOP
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	53.8%	48.1%	51.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.188N	P=0.321N	P=0.149N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	548.0 (30.1)	531.1 (44.7)	598.5 (27.6)
MEAN LIFE SPAN (D) (STANDARD ERROR)	647.6 (18.9)	628.2 (27.0)	657.9 (18.6)

*** END OF REPORT ***

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- (C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE
- (D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)