

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

F1_R2

C Number: C20005
Lock Date: 09/07/2006
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

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

MALE RATS
FIRST TERMINAL SACRIFICE AT 727 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 MG/KG

TOTAL 50 UNCENSORED DEATHS 18 CENSORED DEATHS 2 TERMINAL 30
UNCENSORED DEATH DAYS:
440 464 533 542 559 559 570 617 650 652 657 671 673 682
689 701 709 719
CENSORED DEATH DAYS:
398 646

DOSE = 1250 MG/KG

TOTAL 50 UNCENSORED DEATHS 20 CENSORED DEATHS 0 TERMINAL 30
UNCENSORED DEATH DAYS:
435 527 539 561 561 576 581 589 617 629 645 645 659 666
681 699 701 724 724 726
CENSORED DEATH DAYS:
None

DOSE = 2500 MG/KG

TOTAL 50 UNCENSORED DEATHS 13 CENSORED DEATHS 0 TERMINAL 37
UNCENSORED DEATH DAYS:
6 533 538 609 633 652 657 663 676 681 699 707 713
CENSORED DEATH DAYS:
None

DOSE = 5000 MG/KG

TOTAL 50 UNCENSORED DEATHS 27 CENSORED DEATHS 0 TERMINAL 23
UNCENSORED DEATH DAYS:
44 259 334 461 524 534 538 551 570 605 613 617 624 636
647 652 671 673 678 681 681 698 699 700 716 720 724

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

MALE RATS

FIRST TERMINAL SACRIFICE AT 727 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

CENSORED DEATH DAYS:
None

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

MALE RATS
FIRST TERMINAL SACRIFICE AT 727 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	727(A)
0 MG/KG	100.0	100.0	100.0	100.0	100.0	95.9	91.8	85.7	77.4	62.8
1250 MG/KG	100.0	100.0	100.0	100.0	100.0	98.0	94.0	84.0	74.0	60.0
2500 MG/KG	98.0	98.0	98.0	98.0	98.0	98.0	94.0	94.0	84.0	74.0
5000 MG/KG	98.0	98.0	96.0	94.0	94.0	92.0	86.0	80.0	68.0	46.0

- (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)

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

MALE RATS
FIRST TERMINAL SACRIFICE AT 727 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	62.8%	60.0%	74.0%	46.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.108	P=0.934	P=0.299N	P=0.129
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	615.9 (19.9)	624.3 (17.4)	597.5 (51.8)	587.0 (30.1)
MEAN LIFE SPAN (D) (STANDARD ERROR)	678.8 (11.8)	685.9 (9.9)	693.3 (15.4)	651.4 (19.0)

(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)

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Ginseng

CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

FEMALE RATS
FIRST TERMINAL SACRIFICE AT 728 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 MG/KG

TOTAL 50 UNCENSORED DEATHS 14 CENSORED DEATHS 0 TERMINAL 36
UNCENSORED DEATH DAYS:
397 561 592 594 629 635 650 659 668 672 677 680 680 688
CENSORED DEATH DAYS:
None

DOSE = 1250 MG/KG

TOTAL 50 UNCENSORED DEATHS 23 CENSORED DEATHS 0 TERMINAL 27
UNCENSORED DEATH DAYS:
5 9 322 476 500 526 533 544 586 598 614 618 618 639
640 644 651 667 670 680 701 706 709
CENSORED DEATH DAYS:
None

DOSE = 2500 MG/KG

TOTAL 50 UNCENSORED DEATHS 13 CENSORED DEATHS 3 TERMINAL 34
UNCENSORED DEATH DAYS:
119 275 459 504 533 586 643 646 663 680 680 691 709
CENSORED DEATH DAYS:
12 497 648

DOSE = 5000 MG/KG

TOTAL 50 UNCENSORED DEATHS 25 CENSORED DEATHS 1 TERMINAL 24
UNCENSORED DEATH DAYS:
439 461 530 532 541 552 563 572 575 590 600 612 618 624
629 639 640 663 670 677 684 688 699 701 701

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

FEMALE RATS

FIRST TERMINAL SACRIFICE AT 728 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

CENSORED DEATH DAYS:

61

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

FEMALE RATS
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	98.0	98.0	98.0	92.0	84.0	72.0
1250 MG/KG	96.0	96.0	96.0	94.0	94.0	92.0	84.0	80.0	66.0	54.0
2500 MG/KG	100.0	98.0	98.0	95.9	95.9	93.9	89.7	87.6	81.3	72.7
5000 MG/KG	100.0	100.0	100.0	100.0	100.0	95.9	89.8	77.6	63.3	49.0

- (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)

TDMS No. 20005 - 05
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Ginseng
CAS Number: 50647-08-0

Date Report Requested: 07/23/2008
Time Report Requested: 11:57:36
First Dose M/F: 01/21/04 / 01/22/04
Lab: BAT

FEMALE RATS
FIRST TERMINAL SACRIFICE AT 728 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 MG/KG	1250 MG/KG	2500 MG/KG	5000 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	72.0%	54.0%	72.7%	49.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.065	P=0.065	P=1.000N	P=0.022
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	627.3 (20.5)	550.3 (40.3)	552.9 (49.5)	608.0 (14.5)
MEAN LIFE SPAN (D) (STANDARD ERROR)	699.8 (8.5)	646.2 (22.2)	661.9 (21.5)	654.7 (16.4)

*** END OF REPORT ***

- (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)