

TDMS No. 99023 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/F 344

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

beta-Myrcene
CAS Number: 123-35-3

Date Report Reqsted: 09/24/2007
Time Report Reqsted: 12:14:59
First Dose M/F: 03/25/02 / 03/26/02
Lab: BAT

F1_R2

C Number: C99023
Lock Date: 12/22/2004
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 729 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 G/KG

TOTAL 50 UNCENSORED DEATHS 21 CENSORED DEATHS 0 TERMINAL 29
UNCENSORED DEATH DAYS:
429 474 474 516 528 528 536 607 611 667 667 674 674 684
684 688 689 709 715 724 726
CENSORED DEATH DAYS:
None

DOSE = 0.25 G/KG

TOTAL 50 UNCENSORED DEATHS 13 CENSORED DEATHS 1 TERMINAL 36
UNCENSORED DEATH DAYS:
486 544 550 578 611 621 652 684 704 713 717 726 726
CENSORED DEATH DAYS:
261

DOSE = 0.5 G/KG

TOTAL 50 UNCENSORED DEATHS 22 CENSORED DEATHS 0 TERMINAL 28
UNCENSORED DEATH DAYS:
9 24 449 486 549 551 560 604 648 666 666 666 666 666
673 674 684 684 704 709 713 717
CENSORED DEATH DAYS:
None

DOSE = 1.0 G/KG

TOTAL 50 UNCENSORED DEATHS 49 CENSORED DEATHS 1 TERMINAL 0

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INDIVIDUAL SURVIVAL TIMES (DAYS)

UNCENSORED DEATH DAYS:

24	327	414	418	423	425	435	436	439	439	445	446	449	449
451	453	457	465	466	466	467	474	476	476	478	479	484	490
494	497	501	502	502	504	511	513	514	516	516	517	518	520
530	536	569	572	586	595	595							

CENSORED DEATH DAYS:

67

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MALE RATS
 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 G/KG	100.0	100.0	100.0	100.0	100.0	94.0	86.0	86.0	82.0	58.0
0.25 G/KG	100.0	100.0	100.0	100.0	100.0	100.0	95.9	91.8	85.7	73.5
0.5 G/KG	96.0	96.0	96.0	96.0	96.0	94.0	92.0	84.0	82.0	56.0
1.0 G/KG	98.0	98.0	98.0	96.0	87.8	44.9	10.2	0.0	0.0	0.0

- (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 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	58.0%	73.5%	56.0%	0.0%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	P=0.127N	P=0.895	P<0.001
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	619.2 (20.8)	639.4 (22.4)	580.4 (42.0)	474.7 (11.9)
MEAN LIFE SPAN (D) (STANDARD ERROR)	682.9 (11.6)	696.3 (11.9)	663.6 (21.0)	466.5 (14.2)

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FEMALE RATS
FIRST TERMINAL SACRIFICE AT 730 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 G/KG

TOTAL 50 UNCENSORED DEATHS 19 CENSORED DEATHS 0 TERMINAL 31
UNCENSORED DEATH DAYS:
291 330 330 346 486 497 560 606 619 631 644 656 661 665
670 676 686 688 708
CENSORED DEATH DAYS:
None

DOSE = 0.25 G/KG

TOTAL 50 UNCENSORED DEATHS 15 CENSORED DEATHS 2 TERMINAL 33
UNCENSORED DEATH DAYS:
385 408 462 476 548 581 596 646 651 666 666 673 689 697
699
CENSORED DEATH DAYS:
66 197

DOSE = 0.5 G/KG

TOTAL 50 UNCENSORED DEATHS 22 CENSORED DEATHS 0 TERMINAL 28
UNCENSORED DEATH DAYS:
217 283 342 366 371 399 505 556 592 595 596 618 620 623
637 661 666 673 687 701 707 716
CENSORED DEATH DAYS:
None

DOSE = 1.0 G/KG

TOTAL 50 UNCENSORED DEATHS 16 CENSORED DEATHS 1 TERMINAL 33
UNCENSORED DEATH DAYS:
9 64 225 435 491 560 578 588 663 672 678 683 703 708
716 724

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FEMALE RATS
FIRST TERMINAL SACRIFICE AT 730 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

CENSORED DEATH DAYS:

49

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FEMALE RATS
 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)
0 G/KG	100.0	100.0	100.0	92.0	92.0	92.0	88.0	86.0	72.0	62.0
0.25 G/KG	100.0	100.0	100.0	100.0	95.8	91.7	91.7	85.4	81.3	68.8
0.5 G/KG	100.0	100.0	98.0	94.0	88.0	88.0	86.0	78.0	68.0	56.0
1.0 G/KG	96.0	96.0	93.9	93.9	93.9	91.9	89.8	83.7	81.7	67.4

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SURVIVAL SUMMARY STATISTICS				
DOSE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	62.0%	68.8%	56.0%	67.4%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.815N	P=0.566N	P=0.625	P=0.657N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	565.8 (32.5)	589.5 (28.0)	551.4 (32.2)	531.1 (58.3)
MEAN LIFE SPAN (D) (STANDARD ERROR)	667.6 (16.6)	663.9 (19.9)	651.4 (18.9)	652.7 (25.7)

*** END OF REPORT ***

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