

**TDMS No.** 99023 - 04  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

beta-Myrcene  
**CAS Number:** 123-35-3

**Date Report Reqsted:** 07/26/2007  
**Time Report Reqsted:** 09:29:40  
**First Dose M/F:** 04/11/02 / 04/10/02  
**Lab:** BAT

F1\_M3

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

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**DOSE = 0 G/KG**

TOTAL 50                      UNCENSORED DEATHS 16                      CENSORED DEATHS 0                      TERMINAL 34  
UNCENSORED DEATH DAYS:  
468 546 560 567 599 607 607 611 621 629 644 645 659 666  
673 727  
CENSORED DEATH DAYS:  
None

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**DOSE = 0.25 G/KG**

TOTAL 50                      UNCENSORED DEATHS 15                      CENSORED DEATHS 0                      TERMINAL 35  
UNCENSORED DEATH DAYS:  
436 503 503 533 582 600 611 628 634 635 651 673 673 684  
706  
CENSORED DEATH DAYS:  
None

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**DOSE = 0.5 G/KG**

TOTAL 50                      UNCENSORED DEATHS 19                      CENSORED DEATHS 0                      TERMINAL 31  
UNCENSORED DEATH DAYS:  
450 525 531 549 580 583 586 587 637 637 660 667 673 679  
685 691 708 716 721  
CENSORED DEATH DAYS:  
None

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**DOSE = 1.0 G/KG**

TOTAL 50                      UNCENSORED DEATHS 26                      CENSORED DEATHS 3                      TERMINAL 21  
UNCENSORED DEATH DAYS:  
135 323 324 327 334 400 422 465 504 504 504 504 504 504  
505 505 505 542 542 556 557 623 661 673 681 691

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INDIVIDUAL SURVIVAL TIMES (DAYS)

CENSORED DEATH DAYS:  
113 309 331

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**MALE MICE**

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)
<b>0 G/KG</b>	100.0	100.0	100.0	100.0	100.0	98.0	98.0	90.0	74.0	68.0
<b>0.25 G/KG</b>	100.0	100.0	100.0	100.0	100.0	98.0	92.0	88.0	78.0	70.0
<b>0.5 G/KG</b>	100.0	100.0	100.0	100.0	100.0	98.0	94.0	84.0	78.0	62.0
<b>1.0 G/KG</b>	100.0	98.0	98.0	89.6	85.3	83.2	59.7	55.5	51.2	44.8

- (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 MICE**

FIRST TERMINAL SACRIFICE AT 728 DAYS

**SURVIVAL SUMMARY STATISTICS**

DOSE	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	68.0%	70.0%	62.0%	44.8%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.001	P=0.969N	P=0.719	P=0.008
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	614.3 (15.1)	603.5 (20.1)	624.5 (17.3)	492.1 (25.4)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	691.6 (8.9)	690.6 (10.1)	688.7 (9.7)	576.7 (24.2)

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(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

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

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Lab: BAT

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

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**DOSE = 0 G/KG**

TOTAL 50                      UNCENSORED DEATHS 11                      CENSORED DEATHS 0                      TERMINAL 39  
UNCENSORED DEATH DAYS:  
485 497 540 622 622 643 664 689 693 706 721  
CENSORED DEATH DAYS:  
None

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**DOSE = 0.25 G/KG**

TOTAL 50                      UNCENSORED DEATHS 15                      CENSORED DEATHS 1                      TERMINAL 34  
UNCENSORED DEATH DAYS:  
423 454 503 532 533 594 594 608 631 698 706 709 716 716  
717  
CENSORED DEATH DAYS:  
139

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**DOSE = 0.5 G/KG**

TOTAL 50                      UNCENSORED DEATHS 14                      CENSORED DEATHS 1                      TERMINAL 35  
UNCENSORED DEATH DAYS:  
296 394 404 437 438 471 488 492 566 615 619 640 667 674  
CENSORED DEATH DAYS:  
549

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**DOSE = 1.0 G/KG**

TOTAL 50                      UNCENSORED DEATHS 33                      CENSORED DEATHS 0                      TERMINAL 17  
UNCENSORED DEATH DAYS:  
370 376 387 389 402 404 435 435 435 435 435 435 435 435  
436 436 436 436 436 436 436 436 436 436 436 439 466 468  
538 656 659 673 715

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

CENSORED DEATH DAYS:  
None

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 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)
<b>0 G/KG</b>	100.0	100.0	100.0	100.0	100.0	98.0	94.0	94.0	86.0	78.0
<b>0.25 G/KG</b>	100.0	100.0	100.0	100.0	98.0	95.9	89.8	85.7	81.6	69.4
<b>0.5 G/KG</b>	100.0	100.0	100.0	98.0	94.0	88.0	84.0	82.0	75.8	71.7
<b>1.0 G/KG</b>	100.0	100.0	100.0	100.0	88.0	44.0	42.0	42.0	38.0	34.0

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FIRST TERMINAL SACRIFICE AT 727 DAYS

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<b>SURVIVAL SUMMARY STATISTICS</b>				
<b>DOSE</b>	0 G/KG	0.25 G/KG	0.5 G/KG	1.0 G/KG
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	78.0%	69.4%	71.7%	34.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P<0.001	P=0.434	P=0.457	P<0.001
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	625.6 (25.1)	608.9 (26.2)	514.4 (31.2)	461.2 (15.0)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	704.7 (8.0)	679.8 (15.5)	663.9 (16.2)	551.5 (20.5)

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\*\*\* END OF REPORT \*\*\*

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