

**TDMS No.** 20107 - 04  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**

N,N-Dimethyl-p-toluidine

**CAS Number:** 99-97-8

**Date Report Requested:** 03/10/2011

**Time Report Requested:** 11:42:39

**First Dose M/F:** 10/26/04 / 10/25/04

**Lab:** BAT

F1\_M3

**C Number:** C20107  
**Lock Date:** 02/26/2008  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.3.0  
**PWG Approval Date:** NONE



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**MALE MICE**

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 MG/KG                                         | 100.0       | 97.9  | 97.9  | 97.9  | 97.9  | 97.9  | 97.9 | 85.4 | 81.3 | 70.8   |
| 6 MG/KG                                         | 100.0       | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.0 | 86.0 | 84.0 | 72.0   |
| 20 MG/KG                                        | 100.0       | 100.0 | 100.0 | 100.0 | 98.0  | 94.0  | 92.0 | 84.0 | 78.0 | 62.0   |
| 60 MG/KG                                        | 100.0       | 100.0 | 98.0  | 98.0  | 98.0  | 96.0  | 96.0 | 92.0 | 82.0 | 72.0   |

(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 MICE**

FIRST TERMINAL SACRIFICE AT 730 DAYS

| SURVIVAL SUMMARY STATISTICS                                   |                 |                 |                 |                 |
|---------------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|
| DOSE                                                          | 0 MG/KG         | 6 MG/KG         | 20 MG/KG        | 60 MG/KG        |
| <b>SURVIVAL AT END OF STUDY</b><br>(KAPLAN-MEIER)             | 70.8%           | 72.0%           | 62.0%           | 72.0%           |
| <b>SIGNIFICANCE (B)</b><br>(LIFE TABLE)                       | P=1.000N        | P=1.000N        | P=0.448         | P=1.000N        |
| <b>MEAN DAY OF<br/>NATURAL DEATHS (C)</b><br>(STANDARD ERROR) | 600.1<br>(38.0) | 629.4<br>(17.9) | 606.9<br>(22.3) | 601.8<br>(31.7) |
| <b>MEAN LIFE SPAN (D)</b><br>(STANDARD ERROR)                 | 664.6<br>(23.4) | 701.8<br>(8.1)  | 683.2<br>(11.9) | 694.1<br>(11.9) |

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Lab: BAT

FEMALE MICE

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 MG/KG                                         | 100.0       | 100.0 | 100.0 | 100.0 | 100.0 | 98.0 | 98.0 | 98.0 | 92.0 | 86.0   |
| 6 MG/KG                                         | 100.0       | 100.0 | 100.0 | 100.0 | 100.0 | 98.0 | 95.9 | 93.9 | 91.8 | 81.6   |
| 20 MG/KG                                        | 100.0       | 100.0 | 98.0  | 98.0  | 98.0  | 98.0 | 95.9 | 93.9 | 87.8 | 79.6   |
| 60 MG/KG                                        | 100.0       | 100.0 | 100.0 | 100.0 | 95.8  | 93.8 | 91.7 | 81.3 | 75.0 | 66.7   |

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**FEMALE MICE**

FIRST TERMINAL SACRIFICE AT 729 DAYS

| SURVIVAL SUMMARY STATISTICS                                   |                 |                 |                 |                 |
|---------------------------------------------------------------|-----------------|-----------------|-----------------|-----------------|
| DOSE                                                          | 0 MG/KG         | 6 MG/KG         | 20 MG/KG        | 60 MG/KG        |
| <b>SURVIVAL AT END OF STUDY</b><br>(KAPLAN-MEIER)             | 86.0%           | 81.6%           | 79.6%           | 66.7%           |
| <b>SIGNIFICANCE (B)</b><br>(LIFE TABLE)                       | P=0.014         | P=0.763         | P=0.553         | P=0.034         |
| <b>MEAN DAY OF<br/>NATURAL DEATHS (C)</b><br>(STANDARD ERROR) | 632.0<br>(32.1) | 628.0<br>(33.7) | 607.1<br>(44.4) | 585.4<br>(25.7) |
| <b>MEAN LIFE SPAN (D)</b><br>(STANDARD ERROR)                 | 715.4<br>(6.4)  | 696.4<br>(16.2) | 690.3<br>(17.7) | 655.8<br>(21.7) |

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

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