

Experiment Number: 20006 - 04
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: MICE/B6C3F1

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Indole-3-carbinol
CAS Number: 700-06-1

Date Report Requested: 06/15/2012
Time Report Requested: 12:41:18
First Dose M/F: 04/03/07 / 04/02/07
Lab: BAT

F1_M3

NTP Study Number: C20006B
Lock Date: 03/08/2010
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.6.0.0_007
PWG Approval Date: NONE

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MALE MICE

FIRST TERMINAL SACRIFICE AT 730 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 mg/kg

| | | | | | | | | | | | | | |
|-----------------------|----------------------|-----|-----|-----|-------------------|-----|-----|-----|-------------|-----|-----|-----|-----|
| TOTAL 50 | UNCENSORED DEATHS 24 | | | | CENSORED DEATHS 0 | | | | TERMINAL 26 | | | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 354 | 463 | 465 | 469 | 483 | 501 | 519 | 525 | 532 | 546 | 589 | 610 | 619 | 626 |
| 629 | 644 | 662 | 673 | 680 | 697 | 711 | 717 | 723 | 728 | | | | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| None | | | | | | | | | | | | | |

DOSE = 62.5 mg/kg

| | | | | | | | | | | | | | |
|-----------------------|----------------------|-----|-----|-----|-------------------|-----|-----|-----|-------------|-----|-----|-----|-----|
| TOTAL 50 | UNCENSORED DEATHS 19 | | | | CENSORED DEATHS 0 | | | | TERMINAL 31 | | | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 381 | 573 | 582 | 604 | 616 | 630 | 631 | 658 | 673 | 682 | 682 | 692 | 694 | 701 |
| 709 | 710 | 711 | 714 | 716 | | | | | | | | | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| None | | | | | | | | | | | | | |

DOSE = 125 mg/kg

| | | | | | | | | | | | | | |
|-----------------------|----------------------|-----|-----|-----|-------------------|-----|-----|-----|-------------|-----|-----|-----|-----|
| TOTAL 50 | UNCENSORED DEATHS 17 | | | | CENSORED DEATHS 1 | | | | TERMINAL 32 | | | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 437 | 567 | 580 | 596 | 598 | 610 | 617 | 637 | 637 | 655 | 655 | 686 | 695 | 697 |
| 702 | 716 | 717 | | | | | | | | | | | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| 133 | | | | | | | | | | | | | |

DOSE = 250 mg/kg

| | | | | | | | | | | | | | |
|-----------------------|----------------------|-----|-----|-----|-------------------|-----|-----|-----|-------------|-----|-----|-----|-----|
| TOTAL 50 | UNCENSORED DEATHS 17 | | | | CENSORED DEATHS 1 | | | | TERMINAL 32 | | | | |
| UNCENSORED DEATH DAYS | | | | | | | | | | | | | |
| 385 | 437 | 495 | 586 | 596 | 616 | 617 | 631 | 637 | 653 | 671 | 686 | 690 | 694 |
| 715 | 716 | 721 | | | | | | | | | | | |
| CENSORED DEATH DAYS | | | | | | | | | | | | | |
| 511 | | | | | | | | | | | | | |

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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 | 100.0 | 100.0 | 98.0 | 98.0 | 90.0 | 82.0 | 78.0 | 66.0 | 52.0 |
| 62.5 mg/kg | 100.0 | 100.0 | 100.0 | 100.0 | 98.0 | 98.0 | 98.0 | 92.0 | 84.0 | 62.0 |
| 125 mg/kg | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.0 | 98.0 | 89.8 | 77.6 | 65.3 |
| 250 mg/kg | 100.0 | 100.0 | 100.0 | 100.0 | 98.0 | 96.0 | 94.0 | 89.9 | 79.7 | 65.4 |

(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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Lab: BAT

MALE MICE

FIRST TERMINAL SACRIFICE AT 730 DAYS

| SURVIVAL SUMMARY STATISTICS | | | | |
|---|-----------------|-----------------|-----------------|-----------------|
| DOSE | 0 mg/kg | 62.5 mg/kg | 125 mg/kg | 250 mg/kg |
| SURVIVAL AT END OF STUDY (KAPLAN-MEIER) | 52.0% | 62.0% | 65.3% | 65.4% |
| SIGNIFICANCE (B) (LIFE TABLE) | P=0.202N | P=0.256N | P=0.182N | P=0.192N |
| MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR) | 590.2 (20.9) | 650.5 (18.3) | 635.4 (17.1) | 620.4 (23.7) |
| MEAN LIFE SPAN (D) (STANDARD ERROR) | 662.9 (14.1) | 699.8 (8.8) | 685.9 (14.2) | 688.3 (11.4) |

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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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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 | 100.0 | 98.0 | 93.9 | 83.7 | 67.4 |
| 62.5 mg/kg | 100.0 | 100.0 | 98.0 | 98.0 | 98.0 | 98.0 | 98.0 | 96.0 | 88.0 | 80.0 |
| 125 mg/kg | 100.0 | 100.0 | 100.0 | 100.0 | 98.0 | 96.0 | 90.0 | 86.0 | 60.0 | 52.0 |
| 250 mg/kg | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 96.0 | 92.0 | 92.0 | 90.0 |

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Lab: BAT

FEMALE MICE

FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS

| DOSE | 0 mg/kg | 62.5 mg/kg | 125 mg/kg | 250 mg/kg |
|---|-----------------|-----------------|-----------------|-----------------|
| SURVIVAL AT END OF STUDY (KAPLAN-MEIER) | 67.4% | 80.0% | 52.0% | 90.0% |
| SIGNIFICANCE (B) (LIFE TABLE) | P=0.099N | P=0.263N | P=0.082 | P=0.016N |
| MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR) | 655.7 (14.6) | 603.8 (47.8) | 609.9 (15.7) | 572.6 (38.8) |
| MEAN LIFE SPAN (D) (STANDARD ERROR) | 702.3 (7.2) | 704.0 (11.6) | 671.8 (11.3) | 713.4 (7.6) |

*** END OF REPORT ***

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(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)