

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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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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FEMALE MICE

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 mg/kg

TOTAL 50 UNCENSORED DEATHS 16 CENSORED DEATHS 1 TERMINAL 33

UNCENSORED DEATH DAYS

506 569 589 634 639 647 649 664 684 687 695 695 697 709

709 718

CENSORED DEATH DAYS

568

DOSE = 62.5 mg/kg

TOTAL 50 UNCENSORED DEATHS 10 CENSORED DEATHS 0 TERMINAL 40

UNCENSORED DEATH DAYS

191 558 620 620 642 650 681 687 688 701

CENSORED DEATH DAYS

None

DOSE = 125 mg/kg

TOTAL 50 UNCENSORED DEATHS 24 CENSORED DEATHS 0 TERMINAL 26

UNCENSORED DEATH DAYS

381 481 514 523 526 569 597 606 612 619 621 626 638 639

642 645 647 652 661 662 686 688 695 707

CENSORED DEATH DAYS

None

DOSE = 250 mg/kg

TOTAL 50 UNCENSORED DEATHS 5 CENSORED DEATHS 0 TERMINAL 45

UNCENSORED DEATH DAYS

491 505 558 603 706

CENSORED DEATH DAYS

None

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KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
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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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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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