

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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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				
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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									
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CENSORED DEATH DAYS

None

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