

Experiment Number: 20006 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/HSD

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

Date Report Requested: 04/16/2013
Time Report Requested: 09:53:55
First Dose M/F: 03/14/07 / 03/15/07
Lab: BAT

F1_HSD

NTP Study Number: C20006B
Lock Date: 06/21/2010
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.1.1_001
PWG Approval Date: NONE

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MALE RATS

FIRST TERMINAL SACRIFICE AT 727 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 mg/kg

TOTAL 50		UNCENSORED DEATHS 30					CENSORED DEATHS 0					TERMINAL 20	
UNCENSORED DEATH DAYS													
188	197	421	438	444	450	485	505	539	575	575	599	631	634
635	645	666	669	681	682	684	685	685	685	689	693	695	716
720	726												
CENSORED DEATH DAYS													
None													

DOSE = 75 mg/kg

TOTAL 50		UNCENSORED DEATHS 37					CENSORED DEATHS 0					TERMINAL 13	
UNCENSORED DEATH DAYS													
191	357	382	441	448	454	456	489	505	516	533	559	569	571
582	597	602	614	616	617	617	623	637	637	648	650	651	655
661	671	679	680	685	689	692	695	703					
CENSORED DEATH DAYS													
None													

DOSE = 150 mg/kg

TOTAL 50		UNCENSORED DEATHS 33					CENSORED DEATHS 0					TERMINAL 17	
UNCENSORED DEATH DAYS													
367	423	468	482	486	499	500	503	531	546	549	558	570	583
587	593	594	611	616	623	624	657	664	666	690	693	697	706
709	709	711	712	713									
CENSORED DEATH DAYS													
None													

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MALE RATS

FIRST TERMINAL SACRIFICE AT 727 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 300 mg/kg

TOTAL 50

UNCENSORED DEATHS 37

CENSORED DEATHS 1

TERMINAL 12

UNCENSORED DEATH DAYS

258	306	401	412	462	477	496	498	519	531	532	534	575	589
597	611	612	615	617	621	629	640	645	651	658	658	659	661
673	683	701	706	710	712	719	720	722					

CENSORED DEATH DAYS

190

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MALE RATS

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)
0 mg/kg	100.0	100.0	96.0	96.0	94.0	86.0	82.0	76.0	68.0	40.0
75 mg/kg	100.0	100.0	98.0	96.0	94.0	86.0	78.0	66.0	42.0	26.0
150 mg/kg	100.0	100.0	100.0	100.0	96.0	92.0	82.0	66.0	54.0	34.0
300 mg/kg	100.0	100.0	98.0	95.9	91.8	87.8	75.5	69.4	42.9	24.5

(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 RATS

FIRST TERMINAL SACRIFICE AT 727 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	0 mg/kg	75 mg/kg	150 mg/kg	300 mg/kg
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	40.0%	26.0%	34.0%	24.5%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.224	P=0.084	P=0.557	P=0.100
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	587.9 (26.0)	577.6 (18.6)	595.2 (16.4)	589.5 (18.9)
MEAN LIFE SPAN (D) (STANDARD ERROR)	643.5 (18.3)	616.5 (16.6)	640.0 (14.0)	614.5 (18.4)

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 mg/kg

TOTAL 50 UNCENSORED DEATHS 29 CENSORED DEATHS 0 TERMINAL 21

UNCENSORED DEATH DAYS

288	373	389	422	425	446	488	502	509	513	538	552	558	607
611	614	617	632	642	642	645	645	656	681	688	695	719	719
719													

CENSORED DEATH DAYS

None

DOSE = 75 mg/kg

TOTAL 50 UNCENSORED DEATHS 30 CENSORED DEATHS 1 TERMINAL 19

UNCENSORED DEATH DAYS

187	313	335	379	388	463	481	492	509	531	611	616	621	622
622	633	645	645	664	665	665	669	670	705	706	710	713	719
719	719												

CENSORED DEATH DAYS

420

DOSE = 150 mg/kg

TOTAL 50 UNCENSORED DEATHS 31 CENSORED DEATHS 0 TERMINAL 19

UNCENSORED DEATH DAYS

160	189	307	329	393	397	446	516	526	548	590	596	608	611
614	615	631	631	639	643	645	645	646	646	646	664	688	688
688	719	727											

CENSORED DEATH DAYS

None

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FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 300 mg/kg

TOTAL 50

UNCENSORED DEATHS 19

CENSORED DEATHS 1

TERMINAL 30

UNCENSORED DEATH DAYS

175	184	197	356	416	563	571	592	605	622	630	645	645	665
674	688	692	701	719									

CENSORED DEATH DAYS

176

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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	98.0	90.0	88.0	78.0	74.0	54.0	42.0
75 mg/kg	100.0	100.0	98.0	94.0	90.0	85.9	79.8	79.8	57.3	38.9
150 mg/kg	100.0	98.0	96.0	92.0	88.0	86.0	82.0	76.0	48.0	38.0
300 mg/kg	100.0	98.0	93.9	91.9	89.8	89.8	89.8	81.7	71.5	61.3

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	0 mg/kg	75 mg/kg	150 mg/kg	300 mg/kg
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	42.0%	38.9%	38.0%	61.3%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.055N	P=1.000	P=0.837	P=0.079N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	570.2 (21.6)	580.6 (25.9)	561.0 (26.9)	544.2 (42.2)
MEAN LIFE SPAN (D) (STANDARD ERROR)	636.9 (16.7)	633.8 (19.0)	624.8 (20.2)	647.7 (22.4)

*** END OF REPORT ***

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

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