

Experiment Number: 05032-01
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: Rat/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: D-Carvone
CAS Number: 2244-16-8

Date Report Requested: 10/22/2014
Time Report Requested: 02:49:00
First Dose M/F: NA / NA
Lab: IRDC

C Number:	C55867A
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

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Male RAT
FIRST TERMINAL SACRIFICE AT 729 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = VEHICLE CONTROL													
TOTAL 50			UNCENSORED DEATHS 18			CENSORED DEATHS 0			TERMINAL 32				
UNCENSORED DEATH DAYS													
285	403	469	545	616	625	631	637	639	646	670	676	696	697
702	708	708	719										
CENSORED DEATH DAYS													
none													
DOSE = 187MG/KG													
TOTAL 50			UNCENSORED DEATHS 39			CENSORED DEATHS 0			TERMINAL 11				
UNCENSORED DEATH DAYS													
129	252	277	294	295	295	302	304	351	443	497	500	521	532
556	557	584	584	584	590	591	607	616	617	627	627	627	627
633	637	646	662	662	662	670	690	690	693	699			
CENSORED DEATH DAYS													
none													
DOSE = 375MG/KG													
TOTAL 50			UNCENSORED DEATHS 50			CENSORED DEATHS 0			TERMINAL 0				
UNCENSORED DEATH DAYS													
178	262	295	302	315	316	319	342	345	345	352	359	359	359
365	368	371	374	392	392	392	395	397	399	403	414	414	414
414	414	416	416	416	417	423	424	424	424	426	430	430	430
434	440	446	450	450	486	696	716						
CENSORED DEATH DAYS													
none													

(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 RAT
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)
VEHICLE CONTROL	100.0	100.0	100.0	98.0	96.0	94.0	92.0	92.0	80.0	64.0
187MG/KG	100.0	98.0	96.0	82.0	82.0	80.0	72.0	58.0	32.0	22.0
375MG/KG	100.0	98.0	96.0	70.0	24.0	6.0	4.0	4.0	4.0	0.0

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Male RAT
FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	VEHICLE CONTROL	187MG/KG	375MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	64.0%	22.0%	0.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.000	P=0.000	P=0.000
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	615.1 (27.9)	531.5 (24.7)	399.2 (11.8)
MEAN LIFE SPAN (D) (STANDARD ERROR)	688.0 (12.6)	575.0 (22.5)	399.2 (11.8)

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Female RAT
FIRST TERMINAL SACRIFICE AT 729 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = VEHICLE CONTROL													
TOTAL 50			UNCENSORED DEATHS 8				CENSORED DEATHS 1			TERMINAL 41			
UNCENSORED DEATH DAYS													
486	556	657	681	683	693	704	721						
CENSORED DEATH DAYS													
589													
DOSE = 187MG/KG													
TOTAL 50			UNCENSORED DEATHS 22				CENSORED DEATHS 0			TERMINAL 28			
UNCENSORED DEATH DAYS													
344	359	444	502	534	542	560	583	591	616	617	645	675	676
676	683	688	688	690	693	703	704						
CENSORED DEATH DAYS													
none													
DOSE = 375MG/KG													
TOTAL 50			UNCENSORED DEATHS 43				CENSORED DEATHS 0			TERMINAL 7			
UNCENSORED DEATH DAYS													
252	304	306	310	340	365	365	367	395	396	416	417	436	436
436	438	446	450	450	452	452	452	452	452	452	452	452	452
452	469	476	481	481	483	486	486	501	501	508	534	561	670
703													
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)
VEHICLE CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	98.0	96.0	94.0	83.7
187MG/KG	100.0	100.0	100.0	96.0	96.0	94.0	88.0	82.0	76.0	56.0
375MG/KG	100.0	100.0	98.0	86.0	76.0	32.0	20.0	18.0	18.0	14.0

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SURVIVAL SUMMARY STATISTICS

DOSE	VEHICLE CONTROL	187MG/KG	375MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	83.7%	56.0%	14.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.000	P=0.003	P=0.000
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	647.6 (29.2)	600.6 (23.1)	446.2 (12.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	713.2 (6.6)	672.5 (13.6)	485.8 (17.7)

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