

Experiment Number: 05069-10
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Rat/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (monomer)
CAS Number: 147-47-7

Date Report Requested: 10/21/2014
Time Report Requested: 01:27:47
First Dose M/F: NA / NA
Lab: TSI MASON

C Number:	C60902B
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 = 0 MG/KG													
TOTAL 60			UNCENSORED DEATHS 39				CENSORED DEATHS 10				TERMINAL 11		
UNCENSORED DEATH DAYS													
372	388	452	470	485	490	505	514	549	561	571	585	586	597
598	613	617	617	619	619	626	627	628	628	631	641	654	660
662	675	682	684	687	702	703	703	710	715	725			
CENSORED DEATH DAYS													
458	458	458	458	458	458	458	458	458	458				
DOSE = 60 MG/KG													
TOTAL 60			UNCENSORED DEATHS 48				CENSORED DEATHS 10				TERMINAL 2		
UNCENSORED DEATH DAYS													
351	415	421	470	505	514	526	535	548	552	564	570	579	583
591	597	597	597	600	606	613	617	617	619	619	620	627	627
635	635	648	659	664	668	668	687	693	695	696	696	701	701
701	701	708	716	723	728								
CENSORED DEATH DAYS													
458	458	458	458	458	458	458	458	458	458				
DOSE = 100 MG/KG													
TOTAL 60			UNCENSORED DEATHS 47				CENSORED DEATHS 10				TERMINAL 3		
UNCENSORED DEATH DAYS													
315	407	407	486	492	511	527	533	557	593	593	597	604	604
604	610	614	614	614	620	628	628	643	651	651	653	655	655
660	661	661	665	667	667	670	673	673	677	681	687	688	702
710	712	714	717	723									
CENSORED DEATH DAYS													
458	458	458	458	458	458	458	458	458	458				

(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)
0 MG/KG	100.0	100.0	100.0	100.0	96.7	91.0	84.9	70.7	42.4	22.2
60 MG/KG	100.0	100.0	100.0	98.3	95.0	93.0	84.9	62.7	34.4	4.0
100 MG/KG	100.0	100.0	100.0	98.3	95.0	95.0	84.9	70.7	36.4	6.1

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Male RAT
FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 MG/KG	60 MG/KG	100 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	22.2%	4.0%	6.1%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.074	P=0.047	P=0.141
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	603.9 (14.2)	612.6 (12.2)	618.6 (12.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	602.5 (13.9)	590.7 (12.7)	597.4 (13.2)

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Female RAT
FIRST TERMINAL SACRIFICE AT 735 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 MG/KG													
TOTAL 60			UNCENSORED DEATHS 30				CENSORED DEATHS 10			TERMINAL 20			
UNCENSORED DEATH DAYS													
314	367	427	429	440	475	544	561	575	582	607	622	638	640
653	656	665	671	674	682	686	688	698	703	705	716	716	721
728	733												
CENSORED DEATH DAYS													
457	457	457	457	457	457	457	457	457	457				
DOSE = 60 MG/KG													
TOTAL 60			UNCENSORED DEATHS 24				CENSORED DEATHS 10			TERMINAL 26			
UNCENSORED DEATH DAYS													
232	256	385	422	435	444	477	488	494	526	556	629	636	649
652	675	688	705	707	709	709	709	713	728				
CENSORED DEATH DAYS													
457	457	457	457	457	457	457	457	457	457				
DOSE = 100 MG/KG													
TOTAL 60			UNCENSORED DEATHS 29				CENSORED DEATHS 11			TERMINAL 20			
UNCENSORED DEATH DAYS													
414	450	464	507	517	546	563	568	580	615	619	622	625	630
631	642	648	666	668	682	682	685	686	699	706	712	716	728
728													
CENSORED DEATH DAYS													
196	457	457	457	457	457	457	457	457	457	457			

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KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	735(A)
0 MG/KG	100.0	100.0	100.0	98.3	96.7	89.6	87.6	81.5	67.2	40.7
60 MG/KG	100.0	100.0	96.7	96.7	93.3	88.0	81.8	79.8	71.6	53.2
100 MG/KG	100.0	100.0	100.0	100.0	98.3	94.6	90.4	82.2	65.8	41.1

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SURVIVAL SUMMARY STATISTICS

DOSE	0 MG/KG	60 MG/KG	100 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	40.7%	53.2%	41.1%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.938N	P=0.379N	P=1.000N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	610.5 (21.2)	567.7 (30.5)	620.7 (16.0)
MEAN LIFE SPAN (D) (STANDARD ERROR)	626.4 (16.1)	621.7 (18.3)	624.4 (16.1)

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