

Experiment Number: 05069-09
Test Type: CHRONIC
Route: DERMAL,SOLUTION
Species/Strain: Mouse/B6C3F1

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: 01:15:10
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 MOUSE
FIRST TERMINAL SACRIFICE AT 729 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 MG/KG											
TOTAL 60			UNCENSORED DEATHS 11				CENSORED DEATHS 10			TERMINAL 39	
UNCENSORED DEATH DAYS											
428	471	508	598	617	648	652	677	691	709	722	
CENSORED DEATH DAYS											
463	463	463	463	463	463	463	463	463	463	463	
DOSE = 6.0 MG/K											
TOTAL 60			UNCENSORED DEATHS 8				CENSORED DEATHS 10			TERMINAL 42	
UNCENSORED DEATH DAYS											
471	579	592	651	667	673	674	698				
CENSORED DEATH DAYS											
463	463	463	463	463	463	463	463	463	463	463	
DOSE = 10.0 MG/KG											
TOTAL 60			UNCENSORED DEATHS 10				CENSORED DEATHS 10			TERMINAL 40	
UNCENSORED DEATH DAYS											
316	566	576	619	649	655	656	659	684	722		
CENSORED DEATH DAYS											
463	463	463	463	463	463	463	463	463	463	463	

(A) FIRST TERMINAL SACRIFICE

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

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

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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	100.0	96.3	94.3	92.3	86.3	78.3
6.0 MG/K	100.0	100.0	100.0	100.0	100.0	98.0	98.0	94.0	92.0	84.0
10.0 MG/KG	100.0	100.0	100.0	98.3	98.3	98.3	98.3	94.3	84.3	80.3

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Male MOUSE
FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 MG/KG	6.0 MG/K	10.0 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	78.3%	84.0%	80.3%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.846N	P=0.599N	P=0.975N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	611.0 (30.1)	625.6 (26.5)	610.2 (35.9)
MEAN LIFE SPAN (D) (STANDARD ERROR)	663.0 (14.1)	670.9 (13.3)	664.9 (14.2)

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

DOSE = 0 MG/KG													
TOTAL 60			UNCENSORED DEATHS 10				CENSORED DEATHS 12			TERMINAL 37			
UNCENSORED DEATH DAYS													
94	529	543	568	595	605	612	682	706	722				
CENSORED DEATH DAYS													
78	191	462	462	462	462	462	462	462	462	462	462	462	
DOSE = 6.0 MG/K													
TOTAL 60			UNCENSORED DEATHS 10				CENSORED DEATHS 10			TERMINAL 40			
UNCENSORED DEATH DAYS													
587	603	612	623	643	650	654	661	677	728				
CENSORED DEATH DAYS													
462	462	462	462	462	462	462	462	462	462				
DOSE = 10.0 MG/KG													
TOTAL 60			UNCENSORED DEATHS 17				CENSORED DEATHS 11			TERMINAL 32			
UNCENSORED DEATH DAYS													
393	455	477	492	576	608	611	623	626	654	672	688	701	721
722	727	730											
CENSORED DEATH DAYS													
9	462	462	462	462	462	462	462	462	462	462			

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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	98.3	98.3	98.3	98.3	98.3	94.1	87.8	85.8	79.5
6.0 MG/K	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.0	84.0	80.0
10.0 MG/KG	100.0	100.0	100.0	100.0	98.3	94.6	92.5	90.4	80.2	65.8

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SURVIVAL SUMMARY STATISTICS

DOSE	0 MG/KG	6.0 MG/K	10.0 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	79.5%	80.0%	65.8%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.234	P=0.989N	P=0.240
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	565.6 (56.4)	643.8 (12.9)	616.2 (25.5)
MEAN LIFE SPAN (D) (STANDARD ERROR)	639.7 (21.0)	674.3 (13.3)	643.8 (18.3)

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