

Experiment Number: 05131-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Test Compound: SODIUM FLUORIDE

Date Report Requested: 10/19/2014
Time Report Requested: 03:23:06
First Dose M/F: NA / NA
Lab: NIEHS

C Number:	C55221C
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Male
PWG Approval Date	10/15/1997

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Male RAT FIRST TERMINAL SACRIFICE AT 736 DAYS INDIVIDUAL SURVIVAL TIMES (DAYS)													
DOSE = VEHICLE CONTROL													
TOTAL 50			UNCENSORED DEATHS 24			CENSORED DEATHS 0			TERMINAL 26				
UNCENSORED DEATH DAYS													
565	611	611	611	639	639	639	667	667	667	695	695	695	695
695	695	695	696	697	697	710	723	726	733				
CENSORED DEATH DAYS													
none													
DOSE = IRRAD WATER													
TOTAL 49			UNCENSORED DEATHS 19			CENSORED DEATHS 1			TERMINAL 29				
UNCENSORED DEATH DAYS													
527	555	565	565	583	583	583	583	611	611	667	667	667	695
702	702	705	711	723									
CENSORED DEATH DAYS													
639													
DOSE = 250 PPM													
TOTAL 50			UNCENSORED DEATHS 22			CENSORED DEATHS 0			TERMINAL 28				
UNCENSORED DEATH DAYS													
583	583	611	611	639	639	639	667	667	667	691	695	695	695
695	704	712	716	716	720	730	732						
CENSORED DEATH DAYS													
none													
DOSE = 250 PPM IRR FL													
TOTAL 50			UNCENSORED DEATHS 13			CENSORED DEATHS 3			TERMINAL 34				
UNCENSORED DEATH DAYS													
555	555	555	583	583	583	611	611	696	709	716	723	733	
CENSORED DEATH DAYS													
639	695	695											

(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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FIRST TERMINAL SACRIFICE AT 736 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	736(A)
VEHICLE CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.0	86.0	52.0
IRRAD WATER	100.0	100.0	100.0	100.0	100.0	100.0	98.0	83.7	79.6	60.7
250 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.0	86.0	56.0
250 PPM IRR FL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	88.0	84.0	73.2

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FIRST TERMINAL SACRIFICE AT 736 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	VEHICLE CONTROL	IRRAD WATER	250 PPM	250 PPM IRR FL
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	52.0%	60.7%	56.0%	73.2%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.268N	-----	P=0.822N	P=0.071N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	673.5 (8.7)	631.8 (14.7)	673.0 (9.9)	631.8 (19.8)
MEAN LIFE SPAN (D) (STANDARD ERROR)	706.0 (6.1)	693.6 (9.3)	708.3 (6.2)	705.3 (8.3)

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