

Experiment Number: 03038 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/HSD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Sodium Tungstate Dihydrate
CAS Number: 10213-10-2

Date Report Requested: 10/23/2018
Time Report Requested: 09:31:32
First Dose M/F: 01/30/12 / 01/31/12
Lab: BAT

Custom Rpt (Litter Based)

NTP Study Number: C03038
Lock Date: 05/25/2016
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.5.0.0_sfh
PWG Approval Date: NONE

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MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0mg/L male

TOTAL 50 [25] UNCENSORED DEATHS 38 CENSORED DEATHS 0 TERMINAL 12

UNCENSORED DEATH DAYS

187	189	445	450	456	482	493	501	551	568	571	574	575	588
593	600	614	615	619	632	636	639	646	648	652	652	652	654
659	661	666	673	677	682	685	690	691	722				

CENSORED DEATH DAYS

None

DOSE = 250mg/L male

TOTAL 50 [25] UNCENSORED DEATHS 24 CENSORED DEATHS 0 TERMINAL 26

UNCENSORED DEATH DAYS

156	348	358	428	460	550	557	576	576	583	585	600	621	666
670	672	676	677	680	683	685	687	690	694				

CENSORED DEATH DAYS

None

DOSE = 500mg/L male

TOTAL 50 [25] UNCENSORED DEATHS 26 CENSORED DEATHS 0 TERMINAL 24

UNCENSORED DEATH DAYS

313	373	477	491	517	575	578	603	605	611	627	632	642	646
648	666	673	682	688	694	698	713	717	719	722	725		

CENSORED DEATH DAYS

None

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MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 1000mg/L male

TOTAL 50 [25]

UNCENSORED DEATHS 21

CENSORED DEATHS 0

TERMINAL 29

UNCENSORED DEATH DAYS

4	329	351	436	467	566	581	588	602	610	613	616	616	617
652	666	673	679	682	685	697							

CENSORED DEATH DAYS

None

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MALE RATS

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)
0mg/L male	100.0	100.0	96.0	96.0	96.0	88.0	84.0	68.0	40.0	24.0
250mg/L male	100.0	98.0	98.0	94.0	94.0	90.0	90.0	76.0	74.0	52.0
500mg/L male	100.0	100.0	100.0	98.0	96.0	94.0	90.0	82.0	70.0	48.0
1000mg/L male	98.0	98.0	98.0	94.0	94.0	90.0	90.0	82.0	70.0	58.0

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS. NEGATIVE TRENDS ARE INDICATED BY "N". TREND AND PAIRWISE TESTS USE A PROPORTIONAL HAZARDS MODEL WITH DAMID AS A RANDOM EFFECT.

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

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

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MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	0mg/L male	250mg/L male	500mg/L male	1000mg/L male
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	24.0%	52.0%	48.0%	58.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.008N	P=0.028N	P=0.018N	P=0.004N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	591.0 (17.9)	589.8 (26.3)	617.0 (22.8)	550.6 (41.3)
MEAN LIFE SPAN (D) (STANDARD ERROR)	620.7 (17.4)	656.6 (20.3)	670.6 (13.7)	657.4 (17.6)

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 730 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0mg/L female

TOTAL 50 [25]	UNCENSORED DEATHS 20					CENSORED DEATHS 0					TERMINAL 30				
UNCENSORED DEATH DAYS															
286	344	387	494	502	504	523	550	567	610	612	619	624	652		
676	676	695	708	711	711										
CENSORED DEATH DAYS															
None															

DOSE = 250mg/L female

TOTAL 50 [25]	UNCENSORED DEATHS 17					CENSORED DEATHS 0					TERMINAL 33				
UNCENSORED DEATH DAYS															
300	392	403	539	556	620	630	638	638	645	652	686	701	701		
704	719	721													
CENSORED DEATH DAYS															
None															

DOSE = 500mg/L female

TOTAL 50 [25]	UNCENSORED DEATHS 19					CENSORED DEATHS 0					TERMINAL 31				
UNCENSORED DEATH DAYS															
270	288	420	456	463	500	519	529	583	585	588	592	592	642		
651	675	676	716	716											
CENSORED DEATH DAYS															
None															

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 730 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 1000mg/L female

TOTAL 50 [25]

UNCENSORED DEATHS 19

CENSORED DEATHS 0

TERMINAL 31

UNCENSORED DEATH DAYS

200	413	454	478	511	518	553	583	601	624	642	652	658	676
689	704	708	716	724									

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	730(A)
0mg/L female	100.0	100.0	100.0	96.0	94.0	94.0	86.0	82.0	72.0	60.0
250mg/L female	100.0	100.0	100.0	98.0	94.0	94.0	92.0	90.0	78.0	66.0
500mg/L female	100.0	100.0	98.0	96.0	94.0	90.0	84.0	74.0	70.0	62.0
1000mg/L female	100.0	100.0	98.0	98.0	96.0	92.0	88.0	82.0	74.0	62.0

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 730 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0mg/L female	250mg/L female	500mg/L female	1000mg/L female
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	60.0%	66.0%	62.0%	62.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.976N	P=0.467N	P=0.964N	P=0.794N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	563.8 (30.8)	604.6 (29.7)	558.6 (30.6)	579.8 (36.1)
MEAN LIFE SPAN (D) (STANDARD ERROR)	667.0 (15.1)	686.7 (12.3)	661.8 (18.0)	674.7 (14.8)

*** END OF REPORT ***

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