

Experiment Number: 03038 - 04
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1/N

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

Date Report Requested: 02/27/2019
Time Report Requested: 10:15:35
First Dose M/F: 01/17/12 / 01/16/12
Lab: BAT

Final 1_M3

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: 3.0.2.3_002
PWG Approval Date: NONE

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MALE MICE

FIRST TERMINAL SACRIFICE AT 730 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 mg/L

TOTAL 50	UNCENSORED DEATHS 23					CENSORED DEATHS 1					TERMINAL 26				
UNCENSORED DEATH DAYS															
468	502	505	578	589	596	613	613	628	632	632	666	668	675		
680	689	689	694	694	697	703	704	713							
CENSORED DEATH DAYS															
564															

DOSE = 500 mg/L

TOTAL 50	UNCENSORED DEATHS 19					CENSORED DEATHS 0					TERMINAL 31				
UNCENSORED DEATH DAYS															
440	453	481	496	536	547	571	596	613	629	650	660	680	690		
694	709	709	711	723											
CENSORED DEATH DAYS															
None															

DOSE = 1000 mg/L

TOTAL 50	UNCENSORED DEATHS 15					CENSORED DEATHS 0					TERMINAL 35				
UNCENSORED DEATH DAYS															
509	575	615	621	649	652	686	686	694	698	701	702	724	728		
729															
CENSORED DEATH DAYS															
None															

DOSE = 2000 mg/L

TOTAL 50	UNCENSORED DEATHS 15					CENSORED DEATHS 0					TERMINAL 35				
UNCENSORED DEATH DAYS															
363	407	424	521	532	544	568	599	631	644	680	701	712	713		
729															
CENSORED DEATH DAYS															
None															

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MALE MICE
FIRST TERMINAL SACRIFICE AT 730 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	730(A)
0 mg/L	100.0	100.0	100.0	100.0	100.0	98.0	94.0	87.9	77.7	53.1
500 mg/L	100.0	100.0	100.0	100.0	100.0	94.0	90.0	84.0	76.0	62.0
1000 mg/L	100.0	100.0	100.0	100.0	100.0	100.0	98.0	96.0	88.0	70.0
2000 mg/L	100.0	100.0	100.0	98.0	94.0	94.0	88.0	84.0	80.0	70.0

(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 MICE

FIRST TERMINAL SACRIFICE AT 730 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	0 mg/L	500 mg/L	1000 mg/L	2000 mg/L
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	53.1%	62.0%	70.0%	70.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.107N	P=0.530N	P=0.081N	P=0.158N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	636.0 (14.6)	609.9 (21.6)	664.6 (16.1)	584.5 (30.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	683.4 (9.7)	684.4 (11.6)	710.4 (6.4)	686.4 (13.1)

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FEMALE MICE

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 mg/L

TOTAL 50

UNCENSORED DEATHS 12

CENSORED DEATHS 0

TERMINAL 38

UNCENSORED DEATH DAYS

421 432 551 560 566 588 669 676 697 702 703 727

CENSORED DEATH DAYS

None

DOSE = 500 mg/L

TOTAL 50

UNCENSORED DEATHS 9

CENSORED DEATHS 0

TERMINAL 41

UNCENSORED DEATH DAYS

518 599 627 629 634 661 688 703 727

CENSORED DEATH DAYS

None

DOSE = 1000 mg/L

TOTAL 50

UNCENSORED DEATHS 12

CENSORED DEATHS 0

TERMINAL 38

UNCENSORED DEATH DAYS

245 598 598 602 604 613 629 666 700 711 713 720

CENSORED DEATH DAYS

None

DOSE = 2000 mg/L

TOTAL 50

UNCENSORED DEATHS 10

CENSORED DEATHS 0

TERMINAL 40

UNCENSORED DEATH DAYS

47 430 667 668 670 683 706 721 722 727

CENSORED DEATH DAYS

None

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DOSE	TIME (DAYS)									
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0 mg/L	100.0	100.0	100.0	100.0	98.0	96.0	96.0	88.0	88.0	76.0
500 mg/L	100.0	100.0	100.0	100.0	100.0	100.0	98.0	96.0	88.0	82.0
1000 mg/L	100.0	100.0	98.0	98.0	98.0	98.0	98.0	90.0	86.0	76.0
2000 mg/L	98.0	98.0	98.0	98.0	98.0	96.0	96.0	96.0	96.0	80.0

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SURVIVAL SUMMARY STATISTICS				
DOSE	0 mg/L	500 mg/L	1000 mg/L	2000 mg/L
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	76.0%	82.0%	76.0%	80.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.809N	P=0.582N	P=1.000N	P=0.743N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	607.7 (30.4)	642.9 (20.8)	616.6 (36.7)	604.1 (67.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	699.9 (10.2)	713.5 (5.9)	702.0 (10.9)	704.0 (14.8)

*** END OF REPORT ***

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