

Experiment Number: 20320 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Tetrabromobisphenol A

CAS Number: 79-94-7

Date Report Requested: 01/23/2013

Time Report Requested: 15:06:23

First Dose M/F: 07/25/07 / 07/26/07

Lab: BAT

F1_Rev.1_RE

NTP Study Number: C20320

Lock Date: 03/24/2011

Cage Range: ALL

Date Range: ALL

Reasons For Removal: 25021 TSAC
25018 DACC

25020 NATD

25019 MSAC

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

TDMSE Version: 3.0.1.0_004

PWG Approval Date: NONE

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MALE RATS

FIRST TERMINAL SACRIFICE AT 727 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 mg/kg

TOTAL 50	UNCENSORED DEATHS 16	CENSORED DEATHS 1	TERMINAL 33
UNCENSORED DEATH DAYS			
2	196	244	465
687	485	496	502
	517	533	542
	587	622	638
	648		
CENSORED DEATH DAYS			
241			

DOSE = 250 mg/kg

TOTAL 50	UNCENSORED DEATHS 22	CENSORED DEATHS 0	TERMINAL 28
UNCENSORED DEATH DAYS			
35	397	497	500
674	514	549	596
	678	680	605
	689	694	618
	701	709	622
	723	625	645
		657	673
CENSORED DEATH DAYS			
None			

DOSE = 500 mg/kg

TOTAL 50	UNCENSORED DEATHS 12	CENSORED DEATHS 0	TERMINAL 38
UNCENSORED DEATH DAYS			
393	511	567	574
	615	618	626
	640	643	654
	673	723	
CENSORED DEATH DAYS			
None			

DOSE = 1000 mg/kg

TOTAL 50	UNCENSORED DEATHS 8	CENSORED DEATHS 3	TERMINAL 39
UNCENSORED DEATH DAYS			
447	517	531	534
	605	608	672
	672	672	
CENSORED DEATH DAYS			
387	501	594	

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FIRST TERMINAL SACRIFICE AT 727 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	727(A)
0 mg/kg	98.0	98.0	94.0	94.0	94.0	89.9	79.7	77.6	71.5	67.4
250 mg/kg	98.0	98.0	98.0	98.0	96.0	96.0	90.0	84.0	74.0	56.0
500 mg/kg	100.0	100.0	100.0	100.0	98.0	98.0	96.0	92.0	80.0	76.0
1000 mg/kg	100.0	100.0	100.0	100.0	100.0	98.0	91.7	89.6	87.4	83.2

(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 RATS

FIRST TERMINAL SACRIFICE AT 727 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	0 mg/kg	250 mg/kg	500 mg/kg	1000 mg/kg
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	67.4%	56.0%	76.0%	83.2%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.021N	P=0.496	P=0.357N	P=0.096N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	491.2 (47.7)	594.6 (32.0)	603.1 (24.7)	573.3 (28.1)
MEAN LIFE SPAN (D) (STANDARD ERROR)	641.8 (23.1)	668.7 (16.8)	697.3 (9.5)	688.4 (11.8)

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 728 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 mg/kg

TOTAL 50	UNCENSORED DEATHS 13				CENSORED DEATHS 3				TERMINAL 34				
UNCENSORED DEATH DAYS													
464	545	545	546	548	604	655	656	662	668	713	725	726	
CENSORED DEATH DAYS													
364	364	364											

DOSE = 250 mg/kg

TOTAL 50	UNCENSORED DEATHS 16				CENSORED DEATHS 0				TERMINAL 34				
UNCENSORED DEATH DAYS													
355	383	492	527	548	583	614	624	636	652	656	658	664	693
713	722												
CENSORED DEATH DAYS													
None													

DOSE = 500 mg/kg

TOTAL 50	UNCENSORED DEATHS 21				CENSORED DEATHS 0				TERMINAL 29				
UNCENSORED DEATH DAYS													
243	310	321	377	450	488	496	529	531	533	545	561	572	600
607	636	637	639	642	697	705							
CENSORED DEATH DAYS													
None													

DOSE = 1000 mg/kg

TOTAL 50	UNCENSORED DEATHS 13				CENSORED DEATHS 4				TERMINAL 33				
UNCENSORED DEATH DAYS													
462	501	531	545	607	614	615	625	630	684	684	686	688	
CENSORED DEATH DAYS													
191	442	446	603										

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KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	728(A)
0 mg/kg	100.0	100.0	100.0	100.0	100.0	97.9	93.6	87.2	80.9	72.3
250 mg/kg	100.0	100.0	100.0	98.0	96.0	96.0	92.0	88.0	74.0	68.0
500 mg/kg	100.0	100.0	98.0	94.0	92.0	90.0	78.0	72.0	62.0	58.0
1000 mg/kg	100.0	100.0	100.0	100.0	100.0	97.9	91.5	91.5	80.6	71.9

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SURVIVAL SUMMARY STATISTICS				
DOSE	0 mg/kg	250 mg/kg	500 mg/kg	1000 mg/kg
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	72.3%	68.0%	58.0%	71.9%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.943	P=0.732	P=0.111	P=1.000
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	619.8 (23.2)	595.0 (27.3)	529.5 (27.9)	605.5 (20.8)
MEAN LIFE SPAN (D) (STANDARD ERROR)	678.0 (14.4)	685.4 (12.3)	644.6 (18.1)	671.6 (15.2)

*** END OF REPORT ***

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