

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
	694	701	709
	605	618	622
	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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