

Experiment Number: 20209 - 03
Test Type: CHRONIC
Route: GAVAGE
Species/Strain: RATS/Wistar Han

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Pentabromodiphenyl oxide (technical) (DE 71)
CAS Number: 32534-81-9

Date Report Requested: 08/05/2014
Time Report Requested: 10:18:12
First Dose M/F: 08/26/08 / 08/26/08
Lab: SRI

F_Core_RE

NTP Study Number:	C20209		
Lock Date:	08/31/2011		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25021 TSAC	25020 NATD	25019 MSAC
	25018 DACC		
Removal Date Range:	ALL		
Treatment Groups:	Include ALL		
Study Gender:	Both		
TDMSE Version:	3.0.2.1_001		
PWG Approval Date:	NONE		

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MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 MG/KG

TOTAL 49 UNCENSORED DEATHS 12 CENSORED DEATHS 1 TERMINAL 36

UNCENSORED DEATH DAYS

3 508 515 537 553 574 619 620 630 669 676 709

CENSORED DEATH DAYS

44

DOSE = 3 MG/KG

TOTAL 50 UNCENSORED DEATHS 14 CENSORED DEATHS 1 TERMINAL 35

UNCENSORED DEATH DAYS

3 301 465 485 507 549 585 588 592 645 647 658 682 702

CENSORED DEATH DAYS

260

DOSE = 15 MG/KG

TOTAL 50 UNCENSORED DEATHS 12 CENSORED DEATHS 0 TERMINAL 38

UNCENSORED DEATH DAYS

289 436 476 480 553 553 592 595 599 602 617 669

CENSORED DEATH DAYS

None

DOSE = 50 MG/KG

TOTAL 50 UNCENSORED DEATHS 24 CENSORED DEATHS 1 TERMINAL 25

UNCENSORED DEATH DAYS

310 351 424 448 458 505 558 585 595 599 609 610 619 639

658 666 666 669 676 682 698 701 709 719

CENSORED DEATH DAYS

480

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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)
0 MG/KG	98.0	98.0	98.0	98.0	98.0	98.0	91.7	87.5	81.3	75.0
3 MG/KG	98.0	98.0	98.0	96.0	96.0	91.9	89.8	81.7	75.5	71.5
15 MG/KG	100.0	100.0	100.0	98.0	98.0	92.0	92.0	80.0	78.0	76.0
50 MG/KG	100.0	100.0	100.0	96.0	94.0	90.0	88.0	79.8	69.5	51.1

- (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 729 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	75.0%	71.5%	76.0%	51.1%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.011	P=0.814	P=1.000N	P=0.030
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	551.1 (53.3)	529.2 (49.4)	538.4 (29.8)	589.8 (23.5)
MEAN LIFE SPAN (D) (STANDARD ERROR)	671.4 (21.2)	663.7 (20.3)	683.3 (13.5)	657.2 (15.3)

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS
 INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 MG/KG

TOTAL 50	UNCENSORED DEATHS 11	CENSORED DEATHS 2	TERMINAL 37
UNCENSORED DEATH DAYS			
292	445	508	585
	585	592	592
	627	646	694
			708
CENSORED DEATH DAYS			
37	522		

DOSE = 3 MG/KG

TOTAL 50	UNCENSORED DEATHS 10	CENSORED DEATHS 1	TERMINAL 39
UNCENSORED DEATH DAYS			
358	525	585	619
	651	658	687
	694	694	708
CENSORED DEATH DAYS			
662			

DOSE = 15 MG/KG

TOTAL 50	UNCENSORED DEATHS 17	CENSORED DEATHS 0	TERMINAL 33
UNCENSORED DEATH DAYS			
368	472	508	553
694	701	715	555
			569
			610
			614
			655
			656
			676
			676
			676
			686
CENSORED DEATH DAYS			
None			

DOSE = 50 MG/KG

TOTAL 49	UNCENSORED DEATHS 21	CENSORED DEATHS 0	TERMINAL 28
UNCENSORED DEATH DAYS			
3	3	225	385
645	647	669	677
			396
			490
			537
			543
			553
			597
			617
			619
			627
			630
CENSORED DEATH DAYS			
None			

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DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	729(A)
0 MG/KG	100.0	100.0	100.0	98.0	98.0	95.9	93.9	85.5	81.4	77.2
3 MG/KG	100.0	100.0	100.0	98.0	98.0	98.0	96.0	94.0	88.0	79.8
15 MG/KG	100.0	100.0	100.0	100.0	98.0	96.0	94.0	88.0	80.0	66.0
50 MG/KG	95.9	95.9	93.9	93.9	89.8	89.8	83.7	79.6	67.3	57.1

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SURVIVAL SUMMARY STATISTICS

DOSE	0 MG/KG	3 MG/KG	15 MG/KG	50 MG/KG
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	77.2%	79.8%	66.0%	57.1%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.007	P=0.852N	P=0.350	P=0.054
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	570.4 (35.9)	617.9 (34.1)	610.8 (23.1)	520.9 (45.6)
MEAN LIFE SPAN (D) (STANDARD ERROR)	676.1 (18.1)	705.4 (9.1)	688.8 (11.1)	639.8 (24.3)

*** END OF REPORT ***

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