

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

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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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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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	555	569	610	614	655	656	676	676	676	686
694	701	715											
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	396	490	537	543	553	597	617	619	627	630
645	647	669	677	686	687	702							
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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