

**Experiment Number:** 20209 - 04  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** MICE/B6C3F1

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

**Date Report Requested:** 08/14/2014  
**Time Report Requested:** 07:47:55  
**First Dose M/F:** 02/25/08 / 02/25/08  
**Lab:** SRI

F1\_M3

**NTP Study Number:** C20209  
**Lock Date:** 08/31/2011  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.1\_001  
**PWG Approval Date:** NONE

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**MALE MICE**

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = 0 MG/KG**

TOTAL 50	UNCENSORED DEATHS 20					CENSORED DEATHS 1					TERMINAL 29				
UNCENSORED DEATH DAYS															
298	491	494	521	568	569	584	589	592	598	598	600	600	606		
626	639	660	680	684	721										
CENSORED DEATH DAYS															
3															

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**DOSE = 3 MG/KG**

TOTAL 50	UNCENSORED DEATHS 17					CENSORED DEATHS 0					TERMINAL 33				
UNCENSORED DEATH DAYS															
428	540	556	557	564	591	596	603	614	618	620	626	684	689		
692	698	708													
CENSORED DEATH DAYS															
None															

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**DOSE = 30 MG/KG**

TOTAL 50	UNCENSORED DEATHS 19					CENSORED DEATHS 0					TERMINAL 31				
UNCENSORED DEATH DAYS															
431	453	453	551	581	612	618	627	656	656	684	684	684	708		
708	709	715	715	716											
CENSORED DEATH DAYS															
None															

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FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = 100 MG/KG**

TOTAL 50

UNCENSORED DEATHS 48

CENSORED DEATHS 2

TERMINAL 0

UNCENSORED DEATH DAYS

442	451	451	477	477	480	492	500	501	503	515	515	527	528
530	530	535	535	535	535	536	537	537	538	543	543	543	543
543	543	543	543	543	543	543	543	543	543	543	543	543	543
543	543	543	543	543	543								

CENSORED DEATH DAYS

3      3

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**MALE MICE**

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	100.0	100.0	100.0	98.0	98.0	98.0	91.8	73.5	65.3	59.2
3 MG/KG	100.0	100.0	100.0	100.0	100.0	98.0	96.0	84.0	76.0	66.0
30 MG/KG	100.0	100.0	100.0	100.0	100.0	94.0	94.0	90.0	80.0	62.0
100 MG/KG	100.0	100.0	100.0	100.0	100.0	87.5	0.0	0.0	0.0	0.0

(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 729 DAYS

<b>SURVIVAL SUMMARY STATISTICS</b>				
<b>DOSE</b>	<b>0 MG/KG</b>	<b>3 MG/KG</b>	<b>30 MG/KG</b>	<b>100 MG/KG</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	59.2%	66.0%	62.0%	0.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P<0.001	P=0.520N	P=0.673N	P<0.001
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	585.9 (20.1)	610.8 (17.4)	629.5 (21.7)	525.8 (4.0)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	657.2 (18.4)	688.8 (9.9)	691.2 (10.7)	504.9 (15.1)

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**FEMALE MICE**

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

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**DOSE = 100 MG/KG**

TOTAL 50

UNCENSORED DEATHS 50

CENSORED DEATHS 0

TERMINAL 0

UNCENSORED DEATH DAYS

366	432	459	496	515	515	524	535	535	535	542	542	542	542
542	542	542	542	542	542	542	542	542	542	542	542	542	542
542	542	542	542	542	542	542	542	542	542	542	542	542	542
542	542	542	542	542	542	542	542	542	542	542	542	542	542

CENSORED DEATH DAYS

None

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**FEMALE MICE**

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KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
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	95.9	85.7	81.6	67.3
3 MG/KG	100.0	100.0	100.0	100.0	98.0	96.0	94.0	88.0	82.0	70.0
30 MG/KG	100.0	100.0	100.0	100.0	100.0	100.0	98.0	91.8	89.8	75.5
100 MG/KG	100.0	100.0	100.0	100.0	98.0	94.0	0.0	0.0	0.0	0.0

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<b>SURVIVAL SUMMARY STATISTICS</b>				
<b>DOSE</b>	<b>0 MG/KG</b>	<b>3 MG/KG</b>	<b>30 MG/KG</b>	<b>100 MG/KG</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	67.3%	70.0%	75.5%	0.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P<0.001	P=0.932N	P=0.443N	P<0.001
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	614.8 (25.1)	614.0 (23.0)	648.8 (18.3)	531.8 (4.5)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	678.0 (17.6)	694.5 (10.1)	695.2 (15.5)	531.8 (4.5)

\*\*\* END OF REPORT \*\*\*

(A) FIRST TERMINAL SACRIFICE

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(D) MEAN OF ALL DEATHS (UNCENSORED, CENSORED, TERMINAL SACRIFICE)