

Experiment Number: 10188 - 01
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: RATS/HSD

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Di(2-ethylhexyl) Phthalate
CAS Number: 117-81-7

Date Report Requested: 07/11/2019
Time Report Requested: 11:44:18
First Dose M/F: 02/17/11 / 02/18/11
Lab: BAT

Final 1_HSD Rats

NTP Study Number: C10188B
Lock Date: 04/01/2015
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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MALE RATS

FIRST TERMINAL SACRIFICE AT 733 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 ppm Male

TOTAL 50	UNCENSORED DEATHS 18				CENSORED DEATHS 0				TERMINAL 32				
UNCENSORED DEATH DAYS													
271	398	446	465	488	497	556	564	612	625	632	638	653	663
689	691	697	726										
CENSORED DEATH DAYS													
None													

DOSE = 300 ppm Male

TOTAL 50	UNCENSORED DEATHS 16				CENSORED DEATHS 0				TERMINAL 34				
UNCENSORED DEATH DAYS													
257	287	556	579	602	615	635	653	653	654	671	676	709	709
723	732												
CENSORED DEATH DAYS													
None													

DOSE = 1000 ppm Male

TOTAL 50	UNCENSORED DEATHS 11				CENSORED DEATHS 0				TERMINAL 39				
UNCENSORED DEATH DAYS													
308	332	624	656	658	662	669	685	698	701	722			
CENSORED DEATH DAYS													
None													

DOSE = 3000 ppm Male

TOTAL 50	UNCENSORED DEATHS 15				CENSORED DEATHS 0				TERMINAL 35				
UNCENSORED DEATH DAYS													
323	349	504	589	605	614	635	644	677	680	681	691	707	728
728													
CENSORED DEATH DAYS													
None													

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FIRST TERMINAL SACRIFICE AT 733 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 10000 ppm Male

TOTAL 50

UNCENSORED DEATHS 8

CENSORED DEATHS 0

TERMINAL 42

UNCENSORED DEATH DAYS

425 455 614 621 653 661 663 684

CENSORED DEATH DAYS

None

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FIRST TERMINAL SACRIFICE AT 733 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	733(A)
0 ppm Male	100.0	100.0	100.0	98.0	96.0	92.0	88.0	84.0	72.0	64.0
300 ppm Male	100.0	100.0	98.0	96.0	96.0	96.0	96.0	90.0	80.0	68.0
1000 ppm Male	100.0	100.0	100.0	96.0	96.0	96.0	96.0	96.0	88.0	78.0
3000 ppm Male	100.0	100.0	100.0	96.0	96.0	96.0	94.0	90.0	84.0	70.0
10000 ppm Male	100.0	100.0	100.0	100.0	98.0	96.0	96.0	96.0	86.0	84.0

(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 RATS

FIRST TERMINAL SACRIFICE AT 733 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	0 ppm Male	300 ppm Male	1000 ppm Male	3000 ppm Male
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	64.0%	68.0%	78.0%	70.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.061N	P=0.692N	P=0.139N	P=0.553N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	572.8 (28.9)	606.9 (35.0)	610.5 (44.1)	610.3 (32.5)
MEAN LIFE SPAN (D) (STANDARD ERROR)	675.3 (15.0)	692.7 (13.8)	706.0 (11.8)	696.2 (12.5)

DOSE	10000 ppm Male
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	84.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.037N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	597.0 (35.3)
MEAN LIFE SPAN (D) (STANDARD ERROR)	711.2 (8.9)

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 736 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 ppm Female

TOTAL 50	UNCENSORED DEATHS 17							CENSORED DEATHS 0				TERMINAL 33	
UNCENSORED DEATH DAYS													
355	468	489	537	559	575	575	598	643	646	658	658	668	679
694	722	726											
CENSORED DEATH DAYS													
None													

DOSE = 300 ppm Female

TOTAL 50	UNCENSORED DEATHS 16							CENSORED DEATHS 0				TERMINAL 34	
UNCENSORED DEATH DAYS													
238	286	327	370	469	483	523	546	575	580	587	634	666	680
693	697												
CENSORED DEATH DAYS													
None													

DOSE = 1000 ppm Female

TOTAL 50	UNCENSORED DEATHS 17							CENSORED DEATHS 0				TERMINAL 33	
UNCENSORED DEATH DAYS													
196	273	452	498	545	546	552	617	634	635	635	635	652	652
658	722	722											
CENSORED DEATH DAYS													
None													

DOSE = 3000 ppm Female

TOTAL 50	UNCENSORED DEATHS 16							CENSORED DEATHS 0				TERMINAL 34	
UNCENSORED DEATH DAYS													
410	522	523	523	600	618	639	641	643	651	669	677	697	708
712	727												
CENSORED DEATH DAYS													
None													

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INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 10000 ppm Female

TOTAL 50

UNCENSORED DEATHS 18

CENSORED DEATHS 0

TERMINAL 32

UNCENSORED DEATH DAYS

404	474	475	485	489	585	596	603	613	642	642	643	652	656
662	662	663	716										

CENSORED DEATH DAYS

None

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KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	736(A)
0 ppm Female	100.0	100.0	100.0	98.0	98.0	96.0	92.0	84.0	76.0	66.0
300 ppm Female	100.0	100.0	98.0	94.0	92.0	88.0	86.0	78.0	76.0	68.0
1000 ppm Female	100.0	100.0	98.0	96.0	96.0	94.0	90.0	86.0	70.0	66.0
3000 ppm Female	100.0	100.0	100.0	100.0	98.0	98.0	92.0	90.0	80.0	68.0
10000 ppm Female	100.0	100.0	100.0	100.0	98.0	92.0	90.0	84.0	66.0	64.0

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SURVIVAL SUMMARY STATISTICS

DOSE	0 ppm Female	300 ppm Female	1000 ppm Female	3000 ppm Female
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	66.0%	68.0%	66.0%	68.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.834	P=1.000N	P=1.000	P=0.932N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	602.9 (24.1)	522.1 (37.1)	566.1 (35.1)	622.5 (21.8)
MEAN LIFE SPAN (D) (STANDARD ERROR)	690.8 (12.1)	667.6 (18.4)	678.2 (16.4)	699.7 (10.2)

DOSE	10000 ppm Female
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	64.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.904
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	592.3 (20.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	684.3 (12.3)

*** END OF REPORT ***

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(C) MEAN OF ALL UNCENSORED DEATHS PRIOR TO TERMINAL SACRIFICE

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