

Experiment Number: 10987 - 02
Test Type: CHRONIC
Route: DOSED FEED
Species/Strain: MICE/B6C3F1/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Dibutyl Phthalate
CAS Number: 84-74-2

Date Report Requested: 06/04/2018
Time Report Requested: 09:07:59
First Dose M/F: 08/17/10 / 08/16/10
Lab: BAT

Mice_Final Version 1

NTP Study Number: C10987
Lock Date: 11/26/2013
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 MICE

FIRST TERMINAL SACRIFICE AT 730 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 ppm

TOTAL 50	UNCENSORED DEATHS 6	CENSORED DEATHS 0	TERMINAL 44
UNCENSORED DEATH DAYS			
492	666	694	712 718 719
CENSORED DEATH DAYS			
None			

DOSE = 1000 ppm

TOTAL 50	UNCENSORED DEATHS 10	CENSORED DEATHS 0	TERMINAL 40
UNCENSORED DEATH DAYS			
307	613	652	669 673 698 699 701 702 723
CENSORED DEATH DAYS			
None			

DOSE = 3000 ppm

TOTAL 50	UNCENSORED DEATHS 14	CENSORED DEATHS 0	TERMINAL 36
UNCENSORED DEATH DAYS			
244	504	521	551 616 641 659 659 670 688 701 727 728 729
CENSORED DEATH DAYS			
None			

DOSE = 10000 ppm

TOTAL 50	UNCENSORED DEATHS 7	CENSORED DEATHS 0	TERMINAL 43
UNCENSORED DEATH DAYS			
51	400	607	624 624 680 688
CENSORED DEATH DAYS			
None			

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FIRST TERMINAL SACRIFICE AT 730 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	730(A)
0 ppm	100.0	100.0	100.0	100.0	100.0	100.0	98.0	98.0	98.0	88.0
1000 ppm	100.0	100.0	100.0	98.0	98.0	98.0	98.0	98.0	94.0	80.0
3000 ppm	100.0	100.0	98.0	98.0	98.0	98.0	94.0	92.0	84.0	72.0
10000 ppm	98.0	98.0	98.0	98.0	96.0	96.0	96.0	96.0	90.0	86.0

(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 730 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	0 ppm	1000 ppm	3000 ppm	10000 ppm
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	88.0%	80.0%	72.0%	86.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.927N	P=0.386	P=0.070	P=0.921
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	666.8 (35.9)	643.7 (38.7)	617.0 (34.9)	524.9 (86.9)
MEAN LIFE SPAN (D) (STANDARD ERROR)	722.4 (4.9)	712.7 (8.9)	698.4 (12.0)	701.3 (15.3)

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FEMALE MICE

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 ppm

TOTAL 50	UNCENSORED DEATHS 8	CENSORED DEATHS 0	TERMINAL 42
UNCENSORED DEATH DAYS			
533	541	597	621 647 659 698 714
CENSORED DEATH DAYS			
None			

DOSE = 1000 ppm

TOTAL 50	UNCENSORED DEATHS 8	CENSORED DEATHS 0	TERMINAL 42
UNCENSORED DEATH DAYS			
508	535	550	577 586 679 681 714
CENSORED DEATH DAYS			
None			

DOSE = 3000 ppm

TOTAL 50	UNCENSORED DEATHS 6	CENSORED DEATHS 0	TERMINAL 44
UNCENSORED DEATH DAYS			
448	585	589	589 686 724
CENSORED DEATH DAYS			
None			

DOSE = 10000 ppm

TOTAL 50	UNCENSORED DEATHS 3	CENSORED DEATHS 0	TERMINAL 47
UNCENSORED DEATH DAYS			
547	598	708	
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	729(A)
0 ppm	100.0	100.0	100.0	100.0	100.0	100.0	96.0	94.0	88.0	84.0
1000 ppm	100.0	100.0	100.0	100.0	100.0	100.0	96.0	90.0	90.0	84.0
3000 ppm	100.0	100.0	100.0	100.0	100.0	98.0	98.0	92.0	92.0	88.0
10000 ppm	100.0	100.0	100.0	100.0	100.0	100.0	100.0	96.0	96.0	94.0

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SURVIVAL SUMMARY STATISTICS				
DOSE	0 ppm	1000 ppm	3000 ppm	10000 ppm
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	84.0%	84.0%	88.0%	94.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.126N	P=1.000	P=0.775N	P=0.198N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	626.3 (23.6)	603.8 (27.3)	603.5 (39.3)	617.7 (47.5)
MEAN LIFE SPAN (D) (STANDARD ERROR)	712.6 (6.5)	709.0 (7.7)	713.9 (7.3)	722.3 (4.4)

*** END OF REPORT ***

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