

Experiment Number: 10987 - 01
Test Type: Chronic PN
Route: DOSED FEED
Species/Strain: RATS/HSD

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

Date Report Requested: 05/15/2019
Time Report Requested: 14:56:24
First Dose M/F: 08/30/10 / 08/31/10
Lab: BAT

Custom Report (Litter-Based)

NTP Study Number: C10987
Lock Date: 01/15/2015
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.5.0.0_sfh
PWG Approval Date: NONE

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MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 ppm

TOTAL 49 [25] UNCENSORED DEATHS 22 CENSORED DEATHS 0 TERMINAL 27

UNCENSORED DEATH DAYS

169 375 409 506 560 592 598 603 603 611 630 654 661 674
676 686 694 701 701 716 722 725

CENSORED DEATH DAYS

None

DOSE = 300 ppm

TOTAL 50 [25] UNCENSORED DEATHS 12 CENSORED DEATHS 0 TERMINAL 38

UNCENSORED DEATH DAYS

268 424 450 555 565 603 617 619 632 685 706 722

CENSORED DEATH DAYS

None

DOSE = 1000 ppm

TOTAL 50 [25] UNCENSORED DEATHS 19 CENSORED DEATHS 0 TERMINAL 31

UNCENSORED DEATH DAYS

284 512 585 609 615 621 636 644 646 652 661 663 685 691
706 709 711 722 727

CENSORED DEATH DAYS

None

DOSE = 3000 ppm

TOTAL 50 [25] UNCENSORED DEATHS 16 CENSORED DEATHS 0 TERMINAL 34

UNCENSORED DEATH DAYS

141 414 519 562 565 589 592 609 625 654 666 680 691 699
715 718

CENSORED DEATH DAYS

None

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DOSE = 10000 ppm

TOTAL 50 [25]

UNCENSORED DEATHS 17

CENSORED DEATHS 0

TERMINAL 33

UNCENSORED DEATH DAYS

57	141	231	275	400	495	512	519	595	621	654	677	684	684
701	705	716											

CENSORED DEATH DAYS

None

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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 ppm	100.0	98.0	98.0	98.0	93.9	93.9	91.8	81.6	73.5	55.1
300 ppm	100.0	100.0	98.0	98.0	96.0	94.0	94.0	88.0	82.0	76.0
1000 ppm	100.0	100.0	100.0	98.0	98.0	98.0	96.0	94.0	76.0	62.0
3000 ppm	100.0	98.0	98.0	98.0	96.0	96.0	94.0	86.0	80.0	68.0
10000 ppm	98.0	96.0	94.0	92.0	90.0	90.0	84.0	82.0	78.0	66.0

(A) FIRST TERMINAL SACRIFICE

(B) THE FIRST ENTRY IS THE TREND TEST RESULT. SUBSEQUENT ENTRIES ARE THE RESULTS OF PAIRWISE TESTS. NEGATIVE TRENDS ARE INDICATED BY "N". TREND AND PAIRWISE TESTS USE A PROPORTIONAL HAZARDS MODEL WITH DAMID AS A RANDOM EFFECT.

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

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

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MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	0 ppm	300 ppm	1000 ppm	3000 ppm
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	55.1%	76.0%	62.0%	68.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.948	P=0.029N	P=0.354N	P=0.168N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	603.6 (26.2)	563.4 (45.0)	630.9 (25.1)	597.5 (25.1)
MEAN LIFE SPAN (D) (STANDARD ERROR)	673.6 (14.8)	691.0 (13.2)	693.6 (9.7)	684.5 (13.9)

DOSE	10000 ppm
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	66.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.359N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	508.6 (55.5)
MEAN LIFE SPAN (D) (STANDARD ERROR)	654.5 (20.8)

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 730 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 ppm

TOTAL 50 [25]	UNCENSORED DEATHS 21							CENSORED DEATHS 0					TERMINAL 29
UNCENSORED DEATH DAYS													
302	344	351	354	535	564	588	591	594	624	630	640	646	659
662	669	680	685	696	715	725							
CENSORED DEATH DAYS													
None													

DOSE = 300 ppm

TOTAL 50 [25]	UNCENSORED DEATHS 13							CENSORED DEATHS 0					TERMINAL 37
UNCENSORED DEATH DAYS													
281	400	403	466	494	514	564	590	594	610	662	675	701	
CENSORED DEATH DAYS													
None													

DOSE = 1000 ppm

TOTAL 50 [25]	UNCENSORED DEATHS 23							CENSORED DEATHS 0					TERMINAL 27
UNCENSORED DEATH DAYS													
290	309	351	351	393	448	491	512	524	543	564	570	591	597
610	625	659	660	662	675	692	698	719					
CENSORED DEATH DAYS													
None													

DOSE = 3000 ppm

TOTAL 50 [25]	UNCENSORED DEATHS 18							CENSORED DEATHS 0					TERMINAL 32
UNCENSORED DEATH DAYS													
326	361	388	483	501	501	533	543	591	610	629	631	646	676
676	683	712	721										
CENSORED DEATH DAYS													
None													

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INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 10000 ppm

TOTAL 50 [25]

UNCENSORED DEATHS 21

CENSORED DEATHS 0

TERMINAL 29

UNCENSORED DEATH DAYS

329	333	420	438	448	466	473	515	543	547	551	557	561	589
610	615	618	625	654	655	703							

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	730(A)
0 ppm	100.0	100.0	100.0	92.0	92.0	92.0	90.0	82.0	70.0	58.0
300 ppm	100.0	100.0	100.0	98.0	94.0	92.0	88.0	82.0	78.0	74.0
1000 ppm	100.0	100.0	100.0	92.0	90.0	88.0	80.0	72.0	62.0	54.0
3000 ppm	100.0	100.0	100.0	96.0	94.0	92.0	84.0	82.0	74.0	64.0
10000 ppm	100.0	100.0	100.0	96.0	94.0	86.0	82.0	72.0	60.0	58.0

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SURVIVAL SUMMARY STATISTICS

DOSE	0 ppm	300 ppm	1000 ppm	3000 ppm
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	58.0%	74.0%	54.0%	64.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.490	P=0.137N	P=0.540	P=0.590N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	580.9 (31.8)	532.7 (35.5)	543.9 (28.5)	565.7 (31.9)
MEAN LIFE SPAN (D) (STANDARD ERROR)	668.5 (13.9)	679.3 (14.8)	644.9 (17.5)	671.4 (16.5)

DOSE	10000 ppm
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	58.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.803
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	527.3 (24.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	648.4 (16.7)

*** END OF REPORT ***

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