

Experiment Number: 10472 - 04
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: MICE/B6C3F1

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

p-Chloro-a,a,a-trifluorotoluene

CAS Number: 98-56-6

Date Report Requested: 03/15/2016

Time Report Requested: 08:52:04

First Dose M/F: 01/31/11 / 01/31/11

Lab: BNW

F1_M3

NTP Study Number: C10472B
Lock Date: 08/29/2013
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: 02/01/2016

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MALE MICE
 FIRST TERMINAL SACRIFICE AT **729** DAYS
 INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = Control

TOTAL 50	UNCENSORED DEATHS 10										CENSORED DEATHS 0			TERMINAL 40
UNCENSORED DEATH DAYS														
424	488	591	595	612	620	640	690	704	723					
CENSORED DEATH DAYS														
None														

DOSE = 100 ppm

TOTAL 50	UNCENSORED DEATHS 10										CENSORED DEATHS 0			TERMINAL 40
UNCENSORED DEATH DAYS														
531	605	610	660	665	672	688	691	698	721					
CENSORED DEATH DAYS														
None														

DOSE = 200 ppm

TOTAL 50	UNCENSORED DEATHS 15										CENSORED DEATHS 0			TERMINAL 35
UNCENSORED DEATH DAYS														
340	444	523	551	586	587	592	631	647	659	667	704	719	723	
726														
CENSORED DEATH DAYS														
None														

DOSE = 400 ppm

TOTAL 50	UNCENSORED DEATHS 22										CENSORED DEATHS 0			TERMINAL 28
UNCENSORED DEATH DAYS														
415	477	548	577	579	585	592	606	622	626	632	638	643	653	
655	656	661	661	670	682	693	709							
CENSORED DEATH DAYS														
None														

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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)
Control	100.0	100.0	100.0	100.0	98.0	98.0	96.0	92.0	86.0	80.0
100 ppm	100.0	100.0	100.0	100.0	100.0	100.0	98.0	96.0	90.0	80.0
200 ppm	100.0	100.0	100.0	98.0	98.0	96.0	94.0	86.0	80.0	70.0
400 ppm	100.0	100.0	100.0	100.0	98.0	96.0	96.0	86.0	64.0	56.0

(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

SURVIVAL SUMMARY STATISTICS				
DOSE	Control	100 ppm	200 ppm	400 ppm
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	80.0%	80.0%	70.0%	56.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.002	P=1.000N	P=0.348	P=0.018
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	608.7 (29.6)	654.1 (17.9)	606.6 (28.2)	617.3 (14.8)
MEAN LIFE SPAN (D) (STANDARD ERROR)	704.9 (8.9)	714.0 (5.5)	692.3 (11.5)	679.8 (10.2)

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FEMALE MICE

FIRST TERMINAL SACRIFICE AT 731 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = Control

TOTAL 50 UNCENSORED DEATHS 12 CENSORED DEATHS 0 TERMINAL 38
UNCENSORED DEATH DAYS
469 493 502 544 564 624 642 664 670 675 676 719
CENSORED DEATH DAYS
None

DOSE = 100 ppm

TOTAL 50 UNCENSORED DEATHS 17 CENSORED DEATHS 0 TERMINAL 33
UNCENSORED DEATH DAYS
224 488 545 564 576 578 597 611 626 654 659 685 687 690
691 703 704
CENSORED DEATH DAYS
None

DOSE = 200 ppm

TOTAL 50 UNCENSORED DEATHS 12 CENSORED DEATHS 1 TERMINAL 37
UNCENSORED DEATH DAYS
480 503 526 544 562 576 595 604 641 723 729 730
CENSORED DEATH DAYS
103

DOSE = 400 ppm

TOTAL 50 UNCENSORED DEATHS 23 CENSORED DEATHS 0 TERMINAL 27
UNCENSORED DEATH DAYS
374 464 480 530 570 596 628 642 648 652 663 669 673 675
685 704 708 710 716 718 719 723 724
CENSORED DEATH DAYS
None

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 FIRST TERMINAL SACRIFICE AT 731 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	731(A)
Control	100.0	100.0	100.0	100.0	100.0	98.0	92.0	90.0	84.0	76.0
100 ppm	100.0	100.0	98.0	98.0	98.0	98.0	94.0	86.0	78.0	66.0
200 ppm	100.0	100.0	100.0	100.0	100.0	98.0	91.8	83.7	81.6	75.5
400 ppm	100.0	100.0	100.0	100.0	98.0	94.0	92.0	88.0	78.0	54.0

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FIRST TERMINAL SACRIFICE AT 731 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	Control	100 ppm	200 ppm	400 ppm
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	76.0%	66.0%	75.5%	54.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.059	P=0.398	P=1.000	P=0.051
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	603.5 (24.5)	604.8 (28.4)	601.1 (25.3)	637.9 (19.8)
MEAN LIFE SPAN (D) (STANDARD ERROR)	700.4 (9.6)	688.1 (12.7)	687.3 (15.5)	688.2 (11.2)

*** END OF REPORT ***

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