

TDMS No. 20009 - 04
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: MICE/B6C3F1

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 09:52:36
First Dose M/F: 11/09/04 / 11/08/04
Lab: BAT

F2_M3

C Number: C20009
Lock Date: 05/05/2008
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.4.1.0_004
PWG Approval Date: 12/14/2010

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MALE MICE

FIRST TERMINAL SACRIFICE AT 730 DAYS
 INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 mg/l

TOTAL 50	UNCENSORED DEATHS 26				CENSORED DEATHS 0				TERMINAL 24				
UNCENSORED DEATH DAYS													
402	441	455	455	460	505	508	519	524	543	543	562	567	585
590	594	596	613	619	624	627	646	648	670	700	717		
CENSORED DEATH DAYS													
None													

DOSE = 312.5 mg/l

TOTAL 50	UNCENSORED DEATHS 24				CENSORED DEATHS 0				TERMINAL 26				
UNCENSORED DEATH DAYS													
407	470	512	545	580	583	585	593	593	605	614	621	627	627
627	632	638	642	675	690	702	704	715	722				
CENSORED DEATH DAYS													
None													

DOSE = 625 mg/l

TOTAL 50	UNCENSORED DEATHS 23				CENSORED DEATHS 0				TERMINAL 27				
UNCENSORED DEATH DAYS													
456	470	496	519	524	526	548	551	556	560	569	627	628	631
659	661	670	685	694	700	704	707	715					
CENSORED DEATH DAYS													
None													

DOSE = 1250 mg/l

TOTAL 50	UNCENSORED DEATHS 17				CENSORED DEATHS 0				TERMINAL 33				
UNCENSORED DEATH DAYS													
399	425	465	522	534	534	534	571	675	687	690	709	710	713
715	717	724											
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 mg/l	100.0	100.0	100.0	100.0	98.0	90.0	78.0	66.0	54.0	48.0
312.5 mg/l	100.0	100.0	100.0	100.0	98.0	96.0	92.0	80.0	64.0	52.0
625 mg/l	100.0	100.0	100.0	100.0	100.0	96.0	88.0	78.0	68.0	54.0
1250 mg/l	100.0	100.0	100.0	100.0	96.0	94.0	86.0	84.0	84.0	66.0

(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 mg/l	312.5 mg/l	625 mg/l	1250 mg/l
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	48.0%	52.0%	54.0%	66.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.041N	P=0.503N	P=0.456N	P=0.058N
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	565.9 (16.2)	612.9 (15.5)	602.4 (17.3)	607.3 (27.7)
MEAN LIFE SPAN (D) (STANDARD ERROR)	644.7 (14.4)	673.8 (11.1)	671.3 (12.0)	688.3 (12.4)

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FEMALE MICE

FIRST TERMINAL SACRIFICE AT 729 DAYS
 INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 mg/l

TOTAL 50 UNCENSORED DEATHS 12 CENSORED DEATHS 0 TERMINAL 38
 UNCENSORED DEATH DAYS
 347 372 598 639 643 668 669 674 680 682 698 726
 CENSORED DEATH DAYS
 None

DOSE = 312.5 mg/l

TOTAL 50 UNCENSORED DEATHS 18 CENSORED DEATHS 0 TERMINAL 32
 UNCENSORED DEATH DAYS
 382 494 508 533 553 588 628 662 672 680 685 697 700 704
 711 711 718 724
 CENSORED DEATH DAYS
 None

DOSE = 625 mg/l

TOTAL 50 UNCENSORED DEATHS 15 CENSORED DEATHS 0 TERMINAL 35
 UNCENSORED DEATH DAYS
 309 522 549 617 620 643 647 648 669 686 704 704 711 712
 717
 CENSORED DEATH DAYS
 None

DOSE = 1250 mg/l

TOTAL 50 UNCENSORED DEATHS 17 CENSORED DEATHS 0 TERMINAL 33
 UNCENSORED DEATH DAYS
 494 509 533 573 582 586 612 632 641 647 648 664 669 677
 716 721 722
 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 mg/l	100.0	100.0	100.0	98.0	96.0	96.0	96.0	94.0	90.0	76.0
312.5 mg/l	100.0	100.0	100.0	100.0	98.0	98.0	92.0	88.0	84.0	64.0
625 mg/l	100.0	100.0	100.0	98.0	98.0	98.0	96.0	94.0	84.0	70.0
1250 mg/l	100.0	100.0	100.0	100.0	100.0	100.0	94.0	88.0	76.0	66.0

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SURVIVAL SUMMARY STATISTICS				
DOSE	0 mg/l	312.5 mg/l	625 mg/l	1250 mg/l
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	76.0%	64.0%	70.0%	66.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.446	P=0.294	P=0.656	P=0.325
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	616.3 (35.8)	630.6 (23.2)	630.5 (27.5)	625.1 (17.1)
MEAN LIFE SPAN (D) (STANDARD ERROR)	702.0 (10.8)	693.6 (10.6)	699.5 (10.3)	693.7 (9.1)

*** END OF REPORT ***

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