

TDMS No. 20009 - 03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: RATS/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

beta-Picoline
CAS Number: 108-99-6

Date Report Requested: 05/27/2011
Time Report Requested: 10:09:56
First Dose M/F: 11/18/04 / 11/19/04
Lab: BAT

F2_R2

C Number: C20009
Lock Date: 06/05/2008
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: 06/29/2010

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MALE RATS

FIRST TERMINAL SACRIFICE AT 726 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 mg/l

TOTAL 50 UNCENSORED DEATHS 17 CENSORED DEATHS 0 TERMINAL 33
UNCENSORED DEATH DAYS
16 273 391 467 499 504 593 600 654 658 664 676 676 677
683 685 713
CENSORED DEATH DAYS
None

DOSE = 156.25 mg/l

TOTAL 50 UNCENSORED DEATHS 19 CENSORED DEATHS 0 TERMINAL 31
UNCENSORED DEATH DAYS
498 544 567 589 638 645 664 664 666 673 684 686 693 694
697 713 717 719 720
CENSORED DEATH DAYS
None

DOSE = 312.5 mg/l

TOTAL 50 UNCENSORED DEATHS 18 CENSORED DEATHS 0 TERMINAL 32
UNCENSORED DEATH DAYS
393 569 586 615 618 643 646 646 646 657 673 681 692 701
701 713 721 722
CENSORED DEATH DAYS
None

DOSE = 625 mg/l

TOTAL 50 UNCENSORED DEATHS 26 CENSORED DEATHS 0 TERMINAL 24
UNCENSORED DEATH DAYS
499 543 545 551 552 568 586 607 618 624 628 631 649 657
664 673 681 691 694 696 701 702 713 713 720 723
CENSORED DEATH DAYS
None

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FIRST TERMINAL SACRIFICE AT 726 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	726(A)
0 mg/l	98.0	98.0	98.0	96.0	94.0	92.0	88.0	84.0	78.0	66.0
156.25 mg/l	100.0	100.0	100.0	100.0	100.0	100.0	96.0	92.0	84.0	62.0
312.5 mg/l	100.0	100.0	100.0	100.0	98.0	98.0	98.0	94.0	80.0	64.0
625 mg/l	100.0	100.0	100.0	100.0	100.0	100.0	94.0	86.0	70.0	48.0

(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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FIRST TERMINAL SACRIFICE AT 726 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	66.0%	62.0%	64.0%	48.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.092	P=1.000	P=1.000	P=0.160
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	554.6 (44.9)	656.4 (14.5)	645.7 (18.2)	639.6 (12.9)
MEAN LIFE SPAN (D) (STANDARD ERROR)	667.7 (18.9)	699.5 (7.3)	697.1 (8.5)	681.1 (9.1)

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 727 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 0 mg/l

TOTAL 50	UNCENSORED DEATHS 20				CENSORED DEATHS 0				TERMINAL 30				
UNCENSORED DEATH DAYS													
454	488	509	514	531	579	608	621	625	644	682	683	691	700
701	701	712	712	715	719								
CENSORED DEATH DAYS													
None													

DOSE = 156.25 mg/l

TOTAL 50	UNCENSORED DEATHS 18				CENSORED DEATHS 0				TERMINAL 32				
UNCENSORED DEATH DAYS													
474	488	526	526	531	588	614	616	616	642	645	645	670	706
706	706	712	715										
CENSORED DEATH DAYS													
None													

DOSE = 312.5 mg/l

TOTAL 50	UNCENSORED DEATHS 17				CENSORED DEATHS 0				TERMINAL 33				
UNCENSORED DEATH DAYS													
526	527	579	582	603	642	666	666	670	676	677	683	690	691
691	701	721											
CENSORED DEATH DAYS													
None													

DOSE = 625 mg/l

TOTAL 50	UNCENSORED DEATHS 20				CENSORED DEATHS 0				TERMINAL 30				
UNCENSORED DEATH DAYS													
474	515	527	540	551	579	589	598	607	632	638	656	666	684
685	693	695	700	719	719								
CENSORED DEATH DAYS													
None													

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FIRST TERMINAL SACRIFICE AT 727 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)										
DOSE	TIME (DAYS)									
	90	180	270	365	425	485	545	605	665	727(A)
0 mg/l	100.0	100.0	100.0	100.0	100.0	98.0	90.0	88.0	80.0	60.0
156.25 mg/l	100.0	100.0	100.0	100.0	100.0	98.0	90.0	88.0	76.0	64.0
312.5 mg/l	100.0	100.0	100.0	100.0	100.0	100.0	96.0	90.0	88.0	66.0
625 mg/l	100.0	100.0	100.0	100.0	100.0	98.0	92.0	84.0	76.0	60.0

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SURVIVAL SUMMARY STATISTICS				
DOSE	0 mg/l	156.25 mg/l	312.5 mg/l	625 mg/l
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	60.0%	64.0%	66.0%	60.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.951	P=0.853N	P=0.671N	P=1.000
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	629.5 (19.5)	618.1 (18.9)	646.5 (14.6)	623.4 (16.6)
MEAN LIFE SPAN (D) (STANDARD ERROR)	688.0 (10.3)	687.8 (10.0)	699.6 (7.3)	685.5 (9.8)

*** END OF REPORT ***

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