

**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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**MALE MICE**

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

<b>SURVIVAL SUMMARY STATISTICS</b>				
<b>DOSE</b>	0 mg/l	312.5 mg/l	625 mg/l	1250 mg/l
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	48.0%	52.0%	54.0%	66.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.041N	P=0.503N	P=0.456N	P=0.058N
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	565.9 (16.2)	612.9 (15.5)	602.4 (17.3)	607.3 (27.7)
<b>MEAN LIFE SPAN (D)</b> (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)

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**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											

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**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													

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**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													

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**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
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	76.0%	64.0%	70.0%	66.0%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.446	P=0.294	P=0.656	P=0.325
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	616.3 (35.8)	630.6 (23.2)	630.5 (27.5)	625.1 (17.1)
<b>MEAN LIFE SPAN (D)</b> (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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