

**Experiment Number:** 97010-02  
**Test Type:** 1-YEAR  
**Species/Strain:** Mouse/SKH-1/NCTR

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** alpha/beta Hydroxy acids (glycolic acid, salicylic acid)  
**CAS Number:** HYDROXGLYSAL

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:08:52  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**C Number:** C97010A  
**Lock Date:** Not Entered.  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Female  
**PWG Approval Date:** NONE

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**Lab:** NCTR

**Female MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

<b>DOSE = NO CREAMNO SSL</b>			
TOTAL 36	UNCENSORED DEATHS 1	CENSORED DEATHS 0	TERMINAL 35
<b>UNCENSORED DEATH DAYS</b>			
362			
<b>CENSORED DEATH DAYS</b>			
none			
<b>DOSE = CTLCREAMNO SSL</b>			
TOTAL 18	UNCENSORED DEATHS 3	CENSORED DEATHS 0	TERMINAL 15
<b>UNCENSORED DEATH DAYS</b>			
99	145	263	
<b>CENSORED DEATH DAYS</b>			
none			
<b>DOSE = NO CREAM0.3 MED</b>			
TOTAL 36	UNCENSORED DEATHS 3	CENSORED DEATHS 1	TERMINAL 32
<b>UNCENSORED DEATH DAYS</b>			
117	247	290	
<b>CENSORED DEATH DAYS</b>			
337			
<b>DOSE = CTLCREAM0.3 MED</b>			
TOTAL 18	UNCENSORED DEATHS 4	CENSORED DEATHS 2	TERMINAL 12
<b>UNCENSORED DEATH DAYS</b>			
13	171	206	214
<b>CENSORED DEATH DAYS</b>			
323	337		

(A) FIRST TERMINAL SACRIFICE

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

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

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 Lab: NCTR

Female MOUSE  
 FIRST TERMINAL SACRIFICE AT 363 DAYS  
 INDIVIDUAL SURVIVAL TIMES (DAYS)

<b>DOSE = NO CREAM0.6 MED</b>													
TOTAL 36			UNCENSORED DEATHS 4				CENSORED DEATHS 22				TERMINAL 10		
<b>UNCENSORED DEATH DAYS</b>													
50	268	300	323										
<b>CENSORED DEATH DAYS</b>													
275	281	309	309	309	316	323	323	330	330	330	330	337	337
339	344	344	351	358	358	358	358						
<b>DOSE = CTLCREAM0.6 MED</b>													
TOTAL 18			UNCENSORED DEATHS 4				CENSORED DEATHS 13				TERMINAL 1		
<b>UNCENSORED DEATH DAYS</b>													
283	288	309	323										
<b>CENSORED DEATH DAYS</b>													
267	267	288	302	302	309	311	316	316	316	316	323	332	
<b>DOSE = NO CREAM0.9 MED</b>													
TOTAL 36			UNCENSORED DEATHS 17				CENSORED DEATHS 19				TERMINAL 0		
<b>UNCENSORED DEATH DAYS</b>													
192	221	225	225	232	233	234	239	239	246	246	260	260	267
267	269	303											
<b>CENSORED DEATH DAYS</b>													
269	276	281	281	290	290	290	290	297	297	297	298	298	309
311	311	311	311	332									
<b>DOSE = 2% BHA NO SSL</b>													
TOTAL 18			UNCENSORED DEATHS 1				CENSORED DEATHS 0				TERMINAL 17		
<b>UNCENSORED DEATH DAYS</b>													
136													
<b>CENSORED DEATH DAYS</b>													
none													

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Female MOUSE  
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 INDIVIDUAL SURVIVAL TIMES (DAYS)

<b>DOSE = 2% BHA 0.3 MED</b>										
TOTAL 18										
			UNCENSORED DEATHS 3			CENSORED DEATHS 1			TERMINAL 14	
<b>UNCENSORED DEATH DAYS</b>										
53	146	292								
<b>CENSORED DEATH DAYS</b>										
288										
<b>DOSE = 2% BHA 0.6 MED</b>										
TOTAL 18										
			UNCENSORED DEATHS 1			CENSORED DEATHS 11			TERMINAL 6	
<b>UNCENSORED DEATH DAYS</b>										
267										
<b>CENSORED DEATH DAYS</b>										
281	295	302	309	316	323	323	330	330	337	344
<b>DOSE = 4% AHA NO SSL</b>										
TOTAL 18										
			UNCENSORED DEATHS 1			CENSORED DEATHS 0			TERMINAL 17	
<b>UNCENSORED DEATH DAYS</b>										
99										
<b>CENSORED DEATH DAYS</b>										
none										
<b>DOSE = 4% BHA NO SSL</b>										
TOTAL 18										
			UNCENSORED DEATHS 4			CENSORED DEATHS 0			TERMINAL 14	
<b>UNCENSORED DEATH DAYS</b>										
142	181	340	354							
<b>CENSORED DEATH DAYS</b>										
none										

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 Lab: NCTR

Female MOUSE  
 FIRST TERMINAL SACRIFICE AT 363 DAYS  
 INDIVIDUAL SURVIVAL TIMES (DAYS)

<b>DOSE = 4% AHA 0.3 MED</b>													
TOTAL 18		UNCENSORED DEATHS 1				CENSORED DEATHS 4				TERMINAL 13			
<b>UNCENSORED DEATH DAYS</b>													
188													
<b>CENSORED DEATH DAYS</b>													
248	337	337	358										
<b>DOSE = 4% BHA 0.3 MED</b>													
TOTAL 18		UNCENSORED DEATHS 3				CENSORED DEATHS 0				TERMINAL 15			
<b>UNCENSORED DEATH DAYS</b>													
53	127	149											
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = 4% AHA 0.6 MED</b>													
TOTAL 18		UNCENSORED DEATHS 2				CENSORED DEATHS 15				TERMINAL 1			
<b>UNCENSORED DEATH DAYS</b>													
190	316												
<b>CENSORED DEATH DAYS</b>													
281	281	281	296	302	311	311	316	323	323	330	330	332	337
358													
<b>DOSE = 4% BHA 0.6 MED</b>													
TOTAL 18		UNCENSORED DEATHS 2				CENSORED DEATHS 8				TERMINAL 8			
<b>UNCENSORED DEATH DAYS</b>													
36	311												
<b>CENSORED DEATH DAYS</b>													
281	302	303	323	330	339	351	358						

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**Lab:** NCTR

**Female MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

<b>DOSE = 10% AHA NO SSL</b>													
TOTAL 18		UNCENSORED DEATHS 1			CENSORED DEATHS 0				TERMINAL 17				
<b>UNCENSORED DEATH DAYS</b>													
187													
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = 10% AHA 0.3 MED</b>													
TOTAL 18		UNCENSORED DEATHS 2			CENSORED DEATHS 0				TERMINAL 16				
<b>UNCENSORED DEATH DAYS</b>													
250		333											
<b>CENSORED DEATH DAYS</b>													
none													
<b>DOSE = 10% AHA 0.6 MED</b>													
TOTAL 18		UNCENSORED DEATHS 2			CENSORED DEATHS 15				TERMINAL 1				
<b>UNCENSORED DEATH DAYS</b>													
199		233											
<b>CENSORED DEATH DAYS</b>													
246	254	281	281	295	295	304	316	316	323	323	330	332	339
339													

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Female MOUSE  
 FIRST TERMINAL SACRIFICE AT 363 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)										
	37	74	111	148	185	222	259	296	333	363(A)	
NO CREAMNO SSL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.2
CTLCREAMNO SSL	100.0	100.0	94.4	88.9	88.9	88.9	88.9	83.3	83.3	83.3	83.3
NO CREAM0.3 MED	100.0	100.0	100.0	97.2	97.2	97.2	94.4	91.7	91.7	91.7	91.7
CTLCREAM0.3 MED	94.4	94.4	94.4	94.4	88.9	77.8	77.8	77.8	77.8	77.8	77.8
NO CREAM0.6 MED	100.0	97.2	97.2	97.2	97.2	97.2	97.2	94.4	88.1	88.1	88.1
CTLCREAM0.6 MED	100.0	100.0	100.0	100.0	100.0	100.0	100.0	87.5	59.7	59.7	59.7
NO CREAM0.9 MED	100.0	100.0	100.0	100.0	100.0	94.4	69.4	55.6	0.0	0.0	0.0
2% BHA NO SSL	100.0	100.0	100.0	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
2% BHA 0.3 MED	100.0	94.4	94.4	88.9	88.9	88.9	88.9	83.0	83.0	83.0	83.0
2% BHA 0.6 MED	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.4	94.4	94.4	94.4
4% AHA NO SSL	100.0	100.0	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
4% BHA NO SSL	100.0	100.0	100.0	94.4	88.9	88.9	88.9	88.9	88.9	88.9	77.8
4% AHA 0.3 MED	100.0	100.0	100.0	100.0	100.0	94.4	94.4	94.4	94.4	94.4	94.4
4% BHA 0.3 MED	100.0	94.4	94.4	88.9	83.3	83.3	83.3	83.3	83.3	83.3	83.3
4% AHA 0.6 MED	100.0	100.0	100.0	100.0	100.0	94.4	94.4	94.4	85.0	85.0	85.0
4% BHA 0.6 MED	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	87.7	87.7	87.7
10% AHA NO SSL	100.0	100.0	100.0	100.0	100.0	94.4	94.4	94.4	94.4	94.4	94.4
10% AHA 0.3 MED	100.0	100.0	100.0	100.0	100.0	100.0	94.4	94.4	88.9	88.9	88.9
10% AHA 0.6 MED	100.0	100.0	100.0	100.0	100.0	94.4	88.9	88.9	88.9	88.9	88.9

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**Lab:** NCTR

**Female MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**

**SURVIVAL SUMMARY STATISTICS**

<b>DOSE</b>	<b>NO CREAMNO SSL</b>	<b>CTLCREAMNO SSL</b>	<b>NO CREAM0.3 MED</b>	<b>CTLCREAM0.3 MED</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	97.2%	83.3%	91.7%	77.8%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	-----	-----	-----	-----
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	362.0 (.)	169.0 (48.8)	218.0 (52.0)	151.0 (46.9)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	363.0 (0.0)	330.7 (18.8)	350.2 (7.7)	312.2 (23.0)

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**Female MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**

**SURVIVAL SUMMARY STATISTICS**

DOSE	NO CREAM0.6 MED	CTLCREAM0.6 MED	NO CREAM0.9 MED	2% BHA NO SSL
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	88.1%	59.7%	0.0%	94.4%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	-----	-----	-----	-----
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	235.3 (62.8)	300.8 (9.3)	244.6 (6.1)	136.0 (.)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	328.3 (9.1)	307.3 (5.5)	272.1 (5.5)	350.4 (12.6)

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**Female MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**

**SURVIVAL SUMMARY STATISTICS**

<b>DOSE</b>	<b>2% BHA 0.3 MED</b>	<b>2% BHA 0.6 MED</b>	<b>4% AHA NO SSL</b>	<b>4% BHA NO SSL</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	83.0%	94.4%	94.4%	77.8%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	-----	-----	-----	-----
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	163.7 (69.6)	267.0 (.)	99.0 (.)	254.3 (54.2)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	325.6 (20.5)	329.7 (7.2)	348.3 (14.7)	338.8 (15.3)

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**SURVIVAL SUMMARY STATISTICS**

<b>DOSE</b>	<b>4% AHA 0.3 MED</b>	<b>4% BHA 0.3 MED</b>	<b>4% AHA 0.6 MED</b>	<b>4% BHA 0.6 MED</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	94.4%	83.3%	85.0%	87.7%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	-----	-----	-----	-----
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	188.0 (.)	109.7 (29.0)	253.0 (63.0)	173.5 (137.5)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	343.7 (11.2)	320.8 (23.3)	310.1 (9.0)	324.3 (18.1)

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**Lab:** NCTR

**Female MOUSE**  
**FIRST TERMINAL SACRIFICE AT 363 DAYS**

**SURVIVAL SUMMARY STATISTICS**

<b>DOSE</b>	<b>10% AHA NO SSL</b>	<b>10% AHA 0.3 MED</b>	<b>10% AHA 0.6 MED</b>
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	94.4%	88.9%	88.9%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	-----	-----	-----
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	187.0 (.)	291.5 (41.5)	216.0 (17.0)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	353.2 (9.8)	355.1 (6.4)	298.3 (10.1)

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**CAS Number:** HYDROXGLYSAL

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 05:08:52  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

**\*\* END OF REPORT \*\***

(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)