

**Experiment Number:** 20116-01  
**Test Type:** 90-DAY  
**Route:** DOSED WATER  
**Species/Strain:** Rat/F 344/N

**P11: STATISTICAL ANALYSIS OF SURVIVAL DATA**  
**Test Compound:** Aloe vera whole leaf extract (native)  
**CAS Number:** ALOEVLEAFEXT

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 13:03:31  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

<b>C Number:</b>	C20116B
<b>Lock Date:</b>	Not Entered.
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

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Male RAT  
FIRST TERMINAL SACRIFICE AT 100 DAYS  
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL			
TOTAL 12	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 12
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			
DOSE = 1% WLN			
TOTAL 11	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 11
<b>UNCENSORED DEATH DAYS</b>			
none			
<b>CENSORED DEATH DAYS</b>			
none			
DOSE = 2% WLN			
TOTAL 12	UNCENSORED DEATHS 2	CENSORED DEATHS 0	TERMINAL 10
<b>UNCENSORED DEATH DAYS</b>			
46	62		
<b>CENSORED DEATH DAYS</b>			
none			
DOSE = 3% WLN			
TOTAL 12	UNCENSORED DEATHS 5	CENSORED DEATHS 0	TERMINAL 7
<b>UNCENSORED DEATH DAYS</b>			
31	31	34	34 34
<b>CENSORED DEATH DAYS</b>			
none			

(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 RAT  
FIRST TERMINAL SACRIFICE AT 100 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	10	20	30	40	50	60	70	80	90	100(A)
CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1% WLN	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2% WLN	100.0	100.0	100.0	100.0	91.7	91.7	83.3	83.3	83.3	83.3
3% WLN	100.0	100.0	100.0	58.3	58.3	58.3	58.3	58.3	58.3	58.3

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Male RAT  
 FIRST TERMINAL SACRIFICE AT 100 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	1% WLN	2% WLN	3% WLN
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	100.0%	100.0%	83.3%	58.3%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.003	-----	P=0.460	P=0.046
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	.	.	54.0 (8.0)	32.8 (0.7)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	100.0 (0.0)	100.0 (0.0)	92.3 (5.3)	72.0 (10.0)

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**Female RAT**  
**FIRST TERMINAL SACRIFICE AT 100 DAYS**  
**INDIVIDUAL SURVIVAL TIMES (DAYS)**

<b>DOSE = CONTROL</b>									
TOTAL 12		UNCENSORED DEATHS 0			CENSORED DEATHS 0			TERMINAL 12	
<b>UNCENSORED DEATH DAYS</b>									
none									
<b>CENSORED DEATH DAYS</b>									
none									
<b>DOSE = 1% WLN</b>									
TOTAL 12		UNCENSORED DEATHS 0			CENSORED DEATHS 0			TERMINAL 12	
<b>UNCENSORED DEATH DAYS</b>									
none									
<b>CENSORED DEATH DAYS</b>									
none									
<b>DOSE = 2% WLN</b>									
TOTAL 12		UNCENSORED DEATHS 4			CENSORED DEATHS 0			TERMINAL 8	
<b>UNCENSORED DEATH DAYS</b>									
31	31	31	46						
<b>CENSORED DEATH DAYS</b>									
none									
<b>DOSE = 3% WLN</b>									
TOTAL 12		UNCENSORED DEATHS 8			CENSORED DEATHS 0			TERMINAL 4	
<b>UNCENSORED DEATH DAYS</b>									
26	26	31	31	31	34	34			
<b>CENSORED DEATH DAYS</b>									
none									

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Female RAT  
FIRST TERMINAL SACRIFICE AT 100 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	10	20	30	40	50	60	70	80	90	100(A)
CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1% WLN	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2% WLN	100.0	100.0	100.0	75.0	66.7	66.7	66.7	66.7	66.7	66.7
3% WLN	100.0	100.0	83.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3

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SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	1% WLN	2% WLN	3% WLN
<b>SURVIVAL AT END OF STUDY</b> (KAPLAN-MEIER)	100.0%	100.0%	66.7%	33.3%
<b>SIGNIFICANCE (B)</b> (LIFE TABLE)	P=0.000	----	P=0.103	P=0.002
<b>MEAN DAY OF NATURAL DEATHS (C)</b> (STANDARD ERROR)	.	.	34.8 (3.8)	30.5 (1.1)
<b>MEAN LIFE SPAN (D)</b> (STANDARD ERROR)	100.0 (0.0)	100.0 (0.0)	78.3 (9.3)	53.7 (9.9)

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