

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

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

Date Report Requested: 09/06/2016
Time Report Requested: 10:34:59
First Dose M/F: 11/16/03 / 11/16/03
Lab: NCTR

NTP Study Number: C20116B
Lock Date: Not Entered.
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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MALE RATS

FIRST TERMINAL SACRIFICE AT **100** DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 12	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 12
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 1% WLN

TOTAL 11	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 11
UNCENSORED DEATH DAYS			
None			
CENSORED DEATH DAYS			
None			

DOSE = 2% WLN

TOTAL 12	UNCENSORED DEATHS 2	CENSORED DEATHS 0	TERMINAL 10
UNCENSORED DEATH DAYS			
46 62			
CENSORED DEATH DAYS			
None			

DOSE = 3% WLN

TOTAL 12	UNCENSORED DEATHS 5	CENSORED DEATHS 0	TERMINAL 7
UNCENSORED DEATH DAYS			
31 31 34 34 34			
CENSORED DEATH DAYS			
None			

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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

(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 RATS

FIRST TERMINAL SACRIFICE AT 100 DAYS

SURVIVAL SUMMARY STATISTICS

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

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FEMALE RATS

FIRST TERMINAL SACRIFICE AT 100 DAYS

INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL

TOTAL 12 UNCENSORED DEATHS 0 CENSORED DEATHS 0 TERMINAL 12

UNCENSORED DEATH DAYS

None

CENSORED DEATH DAYS

None

DOSE = 1% WLN

TOTAL 12 UNCENSORED DEATHS 0 CENSORED DEATHS 0 TERMINAL 12

UNCENSORED DEATH DAYS

None

CENSORED DEATH DAYS

None

DOSE = 2% WLN

TOTAL 12 UNCENSORED DEATHS 4 CENSORED DEATHS 0 TERMINAL 8

UNCENSORED DEATH DAYS

31 31 31 46

CENSORED DEATH DAYS

None

DOSE = 3% WLN

TOTAL 12 UNCENSORED DEATHS 8 CENSORED DEATHS 0 TERMINAL 4

UNCENSORED DEATH DAYS

26 26 31 31 31 31 34 34

CENSORED DEATH DAYS

None

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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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FIRST TERMINAL SACRIFICE AT 100 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	1% WLN	2% WLN	3% WLN
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	100.0%	66.7%	33.3%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	-----	P=0.103	P=0.002
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	(.)	(.)	34.8 (3.8)	30.5 (1.1)
MEAN LIFE SPAN (D) (STANDARD ERROR)	100.0 (0.0)	100.0 (0.0)	78.3 (9.3)	53.7 (9.9)

*** END OF REPORT ***

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