

Experiment Number: 96011-01

Test Type: 14-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Cumene

CAS Number: 98-82-8

Date Report Requested: 10/21/2014

Time Report Requested: 20:06:55

First Dose M/F: NA / NA

Lab: BNW

C Number:	C96011
Lock Date:	02/05/2001
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

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Lab: BNW

**Male RAT
FIRST TERMINAL SACRIFICE AT 17 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)**

DOSE = CONTROL			
TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			

DOSE = 250 PPM			
TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			

DOSE = 500 PPM			
TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			

DOSE = 1000 PPM			
TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
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 17 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 2000 PPM

TOTAL 5

UNCENSORED DEATHS 2

CENSORED DEATHS 0

TERMINAL 3

UNCENSORED DEATH DAYS

2 4

CENSORED DEATH DAYS

none

DOSE = 4000 PPM

TOTAL 5

UNCENSORED DEATHS 5

CENSORED DEATHS 0

TERMINAL 0

UNCENSORED DEATH DAYS

1 1 1 1 1

CENSORED DEATH DAYS

none

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First Dose M/F: NA / NA

Lab: BNW

Male RAT
FIRST TERMINAL SACRIFICE AT 17 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE	TIME (DAYS)									
	2	4	6	8	10	12	14	16	18	17(A)
CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
250 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
500 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1000 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2000 PPM	80.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
4000 PPM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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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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First Dose M/F: NA / NA

Lab: BNW

Male RAT
FIRST TERMINAL SACRIFICE AT 17 DAYS

SURVIVAL SUMMARY STATISTICS

DOSE	CONTROL	250 PPM	500 PPM	1000 PPM
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	100.0%	100.0%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.000	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)
	(.)	(.)	(.)	(.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	17.0	17.0	17.0	17.0
	(0.0)	(0.0)	(0.0)	(0.0)

(A) FIRST TERMINAL SACRIFICE

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

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First Dose M/F: NA / NA

Lab: BNW

**Male RAT
FIRST TERMINAL SACRIFICE AT 17 DAYS**

SURVIVAL SUMMARY STATISTICS

DOSE	2000 PPM	4000 PPM
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	60.0%	0.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.431	P=0.016
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	3.0 (1.0)	1.0 (.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	11.4 (3.4)	1.0 (0.0)

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Date Report Requested: 10/21/2014

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First Dose M/F: NA / NA

Lab: BNW

Female RAT
FIRST TERMINAL SACRIFICE AT 17 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = CONTROL			
TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			
<hr/>			
DOSE = 250 PPM			
TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			
<hr/>			
DOSE = 500 PPM			
TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			
<hr/>			
DOSE = 1000 PPM			
TOTAL 5	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 5
UNCENSORED DEATH DAYS			
none			
CENSORED DEATH DAYS			
none			

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First Dose M/F: NA / NA

Lab: BNW

Female RAT
FIRST TERMINAL SACRIFICE AT 17 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 2000 PPM

TOTAL 5

UNCENSORED DEATHS 3

CENSORED DEATHS 0

TERMINAL 2

UNCENSORED DEATH DAYS

2 3 4

CENSORED DEATH DAYS

none

DOSE = 4000 PPM

TOTAL 5

UNCENSORED DEATHS 5

CENSORED DEATHS 0

TERMINAL 0

UNCENSORED DEATH DAYS

1 1 1 1 1

CENSORED DEATH DAYS

none

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Female RAT
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1000 PPM	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2000 PPM	80.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
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Female RAT
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DOSE	CONTROL	250 PPM	500 PPM	1000 PPM
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	100.0%	100.0%	100.0%	100.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.000	-----	-----	-----
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)
	(.)	(.)	(.)	(.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	17.0	17.0	17.0	17.0
	(0.0)	(0.0)	(0.0)	(0.0)

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First Dose M/F: NA / NA

Lab: BNW

**Female RAT
FIRST TERMINAL SACRIFICE AT 17 DAYS**

SURVIVAL SUMMARY STATISTICS

DOSE	2000 PPM	4000 PPM
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	40.0%	0.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.167	P=0.016
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	3.0 (0.6)	1.0 (.)
MEAN LIFE SPAN (D) (STANDARD ERROR)	8.6 (3.4)	1.0 (0.0)

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