

Experiment Number: 20601 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Antimony trioxide
CAS Number: 1309-64-4

Date Report Requested: 10/15/2014
Time Report Requested: 14:20:06
First Dose M/F: 09/22/08 / 09/22/08
Lab: BNW

F1_Core_RE

NTP Study Number:	C20601		
Lock Date:	06/13/2011		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25021 TSAC	25020 NATD	25019 MSAC
Removal Date Range:	ALL		
Treatment Groups:	Include ALL		
Study Gender:	Both		
TDMSE Version:	3.0.2.2_002		
PWG Approval Date:	NONE		

Experiment Number: 20601 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Antimony trioxide
CAS Number: 1309-64-4

Date Report Requested: 10/15/2014
Time Report Requested: 14:20:06
First Dose M/F: 09/22/08 / 09/22/08
Lab: BNW

MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = Control

TOTAL 50	UNCENSORED DEATHS 20				CENSORED DEATHS 0				TERMINAL 30				
UNCENSORED DEATH DAYS													
369	427	472	477	557	571	582	582	582	590	592	607	607	649
659	659	680	680	682	700								
CENSORED DEATH DAYS													
None													

DOSE = 3 mg/m3

TOTAL 50	UNCENSORED DEATHS 20				CENSORED DEATHS 0				TERMINAL 30				
UNCENSORED DEATH DAYS													
339	486	499	514	519	521	530	534	536	543	567	603	607	649
660	682	687	691	691	719								
CENSORED DEATH DAYS													
None													

DOSE = 10 mg/m3

TOTAL 50	UNCENSORED DEATHS 22				CENSORED DEATHS 0				TERMINAL 28				
UNCENSORED DEATH DAYS													
113	159	499	534	537	576	589	589	607	646	649	682	682	684
696	697	705	705	714	716	718	719						
CENSORED DEATH DAYS													
None													

Experiment Number: 20601 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Antimony trioxide
CAS Number: 1309-64-4

Date Report Requested: 10/15/2014
Time Report Requested: 14:20:06
First Dose M/F: 09/22/08 / 09/22/08
Lab: BNW

MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 30 mg/m3

TOTAL 50	UNCENSORED DEATHS 32				CENSORED DEATHS 0				TERMINAL 18				
UNCENSORED DEATH DAYS													
409	459	498	534	534	534	562	586	590	590	607	621	649	654
660	673	673	677	680	682	682	683	691	691	691	694	705	705
708	711	719	726										
CENSORED DEATH DAYS													
None													

Experiment Number: 20601 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
 Antimony trioxide
CAS Number: 1309-64-4

Date Report Requested: 10/15/2014
Time Report Requested: 14:20:06
First Dose M/F: 09/22/08 / 09/22/08
Lab: BNW

MALE RATS

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)
Control	100.0	100.0	100.0	100.0	98.0	92.0	92.0	78.0	68.0	60.0
3 mg/m3	100.0	100.0	100.0	98.0	98.0	98.0	80.0	76.0	70.0	60.0
10 mg/m3	100.0	96.0	96.0	96.0	96.0	96.0	90.0	84.0	78.0	56.0
30 mg/m3	100.0	100.0	100.0	100.0	98.0	96.0	88.0	80.0	70.0	36.0

(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)

Experiment Number: 20601 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Antimony trioxide
CAS Number: 1309-64-4

Date Report Requested: 10/15/2014
Time Report Requested: 14:20:06
First Dose M/F: 09/22/08 / 09/22/08
Lab: BNW

MALE RATS

FIRST TERMINAL SACRIFICE AT 729 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	Control	3 mg/m3	10 mg/m3	30 mg/m3
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	60.0%	60.0%	56.0%	36.0%
SIGNIFICANCE (B) (LIFE TABLE)	P=0.025	P=1.000	P=1.000	P=0.084
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	586.2 (20.1)	578.9 (21.2)	600.7 (35.2)	633.7 (14.5)
MEAN LIFE SPAN (D) (STANDARD ERROR)	671.9 (12.8)	668.9 (13.4)	672.6 (17.8)	668.0 (11.3)

(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)

Experiment Number: 20601 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Antimony trioxide
CAS Number: 1309-64-4

Date Report Requested: 10/15/2014
Time Report Requested: 14:20:06
First Dose M/F: 09/22/08 / 09/22/08
Lab: BNW

FEMALE RATS
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)
Control	100.0	100.0	100.0	100.0	98.0	96.0	96.0	92.0	88.0	78.0
3 mg/m3	100.0	100.0	100.0	100.0	100.0	100.0	94.0	90.0	84.0	76.0
10 mg/m3	100.0	100.0	100.0	100.0	100.0	98.0	94.0	84.0	74.0	56.0
30 mg/m3	100.0	100.0	100.0	100.0	98.0	96.0	86.0	76.0	64.0	40.0

(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)

Experiment Number: 20601 - 03
Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: RATS/Wistar Han

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA
Antimony trioxide
CAS Number: 1309-64-4

Date Report Requested: 10/15/2014
Time Report Requested: 14:20:06
First Dose M/F: 09/22/08 / 09/22/08
Lab: BNW

FEMALE RATS

FIRST TERMINAL SACRIFICE AT 730 DAYS

SURVIVAL SUMMARY STATISTICS				
DOSE	Control	3 mg/m3	10 mg/m3	30 mg/m3
SURVIVAL AT END OF STUDY (KAPLAN-MEIER)	78.0%	76.0%	56.0%	40.0%
SIGNIFICANCE (B) (LIFE TABLE)	P<0.001	P=0.968	P=0.032	P<0.001
MEAN DAY OF NATURAL DEATHS (C) (STANDARD ERROR)	612.7 (34.9)	620.3 (21.3)	630.6 (15.3)	619.0 (16.2)
MEAN LIFE SPAN (D) (STANDARD ERROR)	704.2 (10.1)	703.7 (8.3)	686.3 (9.7)	663.4 (12.4)

*** 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)