Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014 Time Report Requested: 02:29:06

First Dose M/F: NA / NA

Lab: IIT

C Number: C61427

Lock Date: 05/20/1992

Cage Range: All

Date Range: All

Reasons For Removal:

Removal Date Range: All

Treatment Groups: All

Study Gender: Both

PWG Approval Date NONE

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY

Test Compound: Vanadium pentoxide

Species/Strain: Rat/F 344/N

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014
Time Report Requested: 02:29:06

First Dose M/F: NA / NA

Lab: ⅡT

Male RAT FIRST TERMINAL SACRIFICE AT 92 DAYS INDIVIDUAL SURVIVAL TIMES (DAYS)

		TODONE CONTITAL TIMES (DAT	~ ,	
DOSE = CONTROL				
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10	
UNCENSORED DEATH DAYS				
none				
CENSORED DEATH DAYS				
none				
DOSE = 1.00 MG/M3				
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10	
UNCENSORED DEATH DAYS				
none				
CENSORED DEATH DAYS				
none				
DOSE = 2.00 MG/M3				
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10	
UNCENSORED DEATH DAYS				
none				
CENSORED DEATH DAYS				
none				
DOSE = 4.00 MG/M3				
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10	
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)

Species/Strain: Rat/F 344/N

Route: RESPIRATORY EXPOSURE WHOLE BODY

none

Test Type: 90-DAY

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014
Time Report Requested: 02:29:06

First Dose M/F: NA / NA

Lab: ⅡT

Male RAT
FIRST TERMINAL SACRIFICE AT 92 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 8.00 MG/M3 TOTAL 10 **UNCENSORED DEATHS 0** CENSORED DEATHS 0 **TERMINAL 10 UNCENSORED DEATH DAYS** none **CENSORED DEATH DAYS** none DOSE = 16.00 MG/M3 TOTAL 10 **UNCENSORED DEATHS 7 CENSORED DEATHS 0 TERMINAL 3 UNCENSORED DEATH DAYS** 53 54 55 59 74 74 75 **CENSORED DEATH DAYS**

⁽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)

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Vanadium pentoxide **CAS Number:** 1314-62-1

Date Report Requested: 10/23/2014 Time Report Requested: 02:29:06

First Dose M/F: NA / NA

Lab: IIT

Male RAT FIRST TERMINAL SACRIFICE AT 92 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE			TIME (DAYS)								
		10	20	30	40	50	60	70	80	90	92(A)
CONT	ROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1.00	MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2.00	MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4.00	MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
8.00	MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
16.00	MG/M3	100.0	100.0	100.0	100.0	100.0	60.0	60.0	30.0	30.0	30.0

⁽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)

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Vanadium pentoxide **CAS Number:** 1314-62-1

Date Report Requested: 10/23/2014 Time Report Requested: 02:29:06

First Dose M/F: NA / NA

Lab: IIT

Male RAT FIRST TERMINAL SACRIFICE AT 92 DAYS

DOSE	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	
SURVIVAL AT END OF STUDY	100.0%	100.0%	100.0%	100.0%	
(KAPLAN-MEIER)					
SIGNIFICANCE (B)	P=0.000				
(LIFE TABLE)					
MEAN DAY OF NATURAL DEATHS (C)					
(STANDARD ERROR)	(.)	(.)	(.)	(.)	
MEAN LIFE SPAN (D)	92.0	92.0	92.0	92.0	
(STANDARD ERROR)	(0.0)	(0.0)	(0.0)	(0.0)	

⁽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)

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014 Time Report Requested: 02:29:06

First Dose M/F: NA / NA

Lab: ⅡT

Male RAT FIRST TERMINAL SACRIFICE AT 92 DAYS

DOSE	8.00 MG/M3	16.00 MG/M3	
SURVIVAL AT END OF STUDY	100.0%	30.0%	
(KAPLAN-MEIER)			
SIGNIFICANCE (B)		P=0.004	
(LIFE TABLE)			
MEAN DAY OF NATURAL DEATHS (C)		63.4	
(STANDARD ERROR)	(.)	(3.9)	
MEAN LIFE SPAN (D)	92.0	72.0	
(STANDARD ERROR)	(0.0)	(5.1)	

⁽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)

Species/Strain: Rat/F 344/N

Route: RESPIRATORY EXPOSURE WHOLE BODY

Test Type: 90-DAY

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014
Time Report Requested: 02:29:06

First Dose M/F: NA / NA

Lab: ⅡT

Female RAT
FIRST TERMINAL SACRIFICE AT 92 DAYS
INDIVIDUAL SURVIVAL TIMES (DAYS)

	IND	IVIDUAL SURVIVAL TIMES (DAT	<u> </u>	
DOSE = CONTROL				
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10	
UNCENSORED DEATH DAYS				
none				
CENSORED DEATH DAYS				
none				
DOSE = 1.00 MG/M3				
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10	
UNCENSORED DEATH DAYS				
none				
CENSORED DEATH DAYS				
none				
DOSE = 2.00 MG/M3				
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10	
UNCENSORED DEATH DAYS				
none				
CENSORED DEATH DAYS				
none				
DOSE = 4.00 MG/M3				
TOTAL 10	UNCENSORED DEATHS 0	CENSORED DEATHS 0	TERMINAL 10	
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)

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014
Time Report Requested: 02:29:06

First Dose M/F: NA / NA

Lab: ⅡT

Female RAT FIRST TERMINAL SACRIFICE AT 92 DAYS INDIVIDUAL SURVIVAL TIMES (DAYS)

DOSE = 8.00 MG/M3

TOTAL 10

Route: RESPIRATORY EXPOSURE WHOLE BODY

UNCENSORED DEATHS 0

CENSORED DEATHS 0

TERMINAL 10

none

CENSORED DEATH DAYS

UNCENSORED DEATH DAYS

none

DOSE = 16.00 MG/M3

TOTAL 10

UNCENSORED DEATHS 3

CENSORED DEATHS 0

TERMINAL 7

UNCENSORED DEATH DAYS

62

80 9

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)

Species/Strain: Rat/F 344/N

Route: RESPIRATORY EXPOSURE WHOLE BODY

Test Type: 90-DAY

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014
Time Report Requested: 02:29:06

First Dose M/F: NA / NA

Lab: IIT

Female RAT FIRST TERMINAL SACRIFICE AT 92 DAYS

KAPLAN-MEIER SURVIVAL PROBABILITY ESTIMATES (%)

DOSE		TIME (DAYS)								
	10	20	30	40	50	60	70	80	90	92(A)
CONTROL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1.00 MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2.00 MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
4.00 MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
8.00 MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
16.00 MG/M3	100.0	100.0	100.0	100.0	100.0	100.0	90.0	80.0	80.0	70.0

⁽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)

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Vanadium pentoxide **CAS Number:** 1314-62-1

l o

Date Report Requested: 10/23/2014 Time Report Requested: 02:29:06

First Dose M/F: NA / NA

Lab: IIT

Female RAT FIRST TERMINAL SACRIFICE AT 92 DAYS

DOSE	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	
SURVIVAL AT END OF STUDY	100.0%	100.0%	100.0%	100.0%	
(KAPLAN-MEIER)					
SIGNIFICANCE (B)	P=0.002				
(LIFE TABLE)					
MEAN DAY OF NATURAL DEATHS (C)	•				
(STANDARD ERROR)	(.)	(.)	(.)	(.)	
MEAN LIFE SPAN (D)	92.0	92.0	92.0	92.0	
(STANDARD ERROR)	(0.0)	(0.0)	(0.0)	(0.0)	

⁽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)

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014 Time Report Requested: 02:29:06

First Dose M/F: NA / NA

Lab: ⅡT

Female RAT FIRST TERMINAL SACRIFICE AT 92 DAYS

DOSE	8.00 MG/M3	16.00 MG/M3	
SURVIVAL AT END OF STUDY	100.0%	70.0%	
(KAPLAN-MEIER)			
SIGNIFICANCE (B)		P=0.210	
(LIFE TABLE)			
MEAN DAY OF NATURAL DEATHS (C)		77.7	
(STANDARD ERROR)	(.)	(8.5)	
MEAN LIFE SPAN (D)	92.0	87.7	
(STANDARD ERROR)	(0.0)	(3.1)	

⁽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)

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P11: STATISTICAL ANALYSIS OF SURVIVAL DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014 Time Report Requested: 02:29:06

First Dose M/F: NA / NA

Lab: ⅡT

** 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)