

Experiment Number: 61427-04
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/15/2014

Time Report Requested: 13:13:31

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:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

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SUMMARY OF STATISTICALLY SIGNIFICANT ($P \leq .05$) RESULTS IN THE ANALYSIS OF VANADIUM PENTOXIDE

MALE MOUSE

Organ

Lung

Lung: Epithelium

Preputial Gland

Thymus

FEMALE MOUSE

Organ

Lung

Lung: Epithelium

Morphology

Inflammation

Hyperplasia

Hyperplasia

Depletion Lymphoid

Morphology

Inflammation

Hyperplasia

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**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 11 WEEKS**

DOSE	MALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Kidney: Pelvis						
Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	---	---	---	---	72
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.500
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.500
COCH-ARM / FISHERS	P=0.304	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.159
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 11 WEEKS

DOSE	MALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Liver						
Mineralization						
LESION RATES						
OVERALL(a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/9.46
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	93(T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.511N
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.506N
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.516N
COCH-ARM / FISHERS	P=0.304N	(e)	(e)	(e)	(e)	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.173N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

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Test Type: 90-DAY

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Species/Strain: Mouse/B6C3F1

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 11 WEEKS

DOSE	MALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Lung Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	1/10 (10%)	3/10 (30%)	4/10 (40%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	1/10.00	3/10.00	4/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	10%	30%	40%	100%	100%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	3/10 (30%)	4/10 (40%)	10/10 (100%)	9/9 (100%)
FIRST INCIDENCE	---	93(T)	93(T)	93(T)	93(T)	72
STATISTICAL TESTS						
POLY 3	P=0.000**	P=0.500	P=0.095	P=0.033*	P=NA	P=NA
POLY 1.5	P=0.000**	P=0.500	P=0.095	P=0.033*	P=NA	P=NA
POLY 6	P=0.000**	P=0.500	P=0.095	P=0.033*	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	P=0.500	P=0.105	P=0.043*	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	P=0.159	P=0.025*	P=0.007**	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-04

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Route: RESPIRATORY EXPOSURE WHOLE BODY

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First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 11 WEEKS

DOSE	MALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Lung: Epithelium Hyperplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	1/10 (10%)	4/10 (40%)	5/10 (50%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	1/10.00	4/10.00	5/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	10%	40%	50%	100%	100%
TERMINAL (d)	0/10 (0%)	1/10 (10%)	4/10 (40%)	5/10 (50%)	10/10 (100%)	9/9 (100%)
FIRST INCIDENCE	---	93(T)	93(T)	93(T)	93(T)	72
STATISTICAL TESTS						
POLY 3	P=0.000**	P=0.500	P=0.033*	P=0.008**	P=NA	P=NA
POLY 1.5	P=0.000**	P=0.500	P=0.033*	P=0.008**	P=NA	P=NA
POLY 6	P=0.000**	P=0.500	P=0.033*	P=0.008**	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	P=0.500	P=0.043*	P=0.016*	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	P=0.159	P=0.007**	P<0.001**	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

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First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 11 WEEKS

DOSE	MALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Preputial Gland						
Cyst						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/0.00	0/0.00	0/0.00	1/9.46
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10.6%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/9 (11%)
FIRST INCIDENCE	---	---	---	---	---	93(T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.489
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.494
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.484
COCH-ARM / FISHERS	P=0.288	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.159
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

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Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

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First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 11 WEEKS

DOSE	MALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Preputial Gland						
Hyperplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	1/1.00	0/0.00	0/0.00	0/0.00	0/9.46
POLY-3 PERCENT (g)	0%	100%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)
FIRST INCIDENCE	---	93(T)	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	P=0.091	(e)	(e)	(e)	(e)
POLY 1.5	(e)	P=0.091	(e)	(e)	(e)	(e)
POLY 6	(e)	P=0.091	(e)	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.366N	P=0.091	(e)	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	P=0.000**	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

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Species/Strain: Mouse/B6C3F1

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Test Compound: Vanadium pentoxide

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First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 11 WEEKS

DOSE	MALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Thymus						
Depletion Lymphoid						
LESION RATES						
OVERALL(a)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)	2/7 (29%)
POLY-3 RATE (b)	0/9.00	0/0.00	0/0.00	0/0.00	0/8.00	2/7.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	28.6%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/8 (0%)	1/6 (17%)
FIRST INCIDENCE	---	---	---	---	---	72
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.162
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.162
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.162
COCH-ARM / FISHERS	P=0.065	(e)	(e)	(e)	(e)	P=0.175
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.047*
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

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First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Kidney: Pelvis						
Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

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First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Liver						
Mineralization						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/0.00	0/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)
FIRST INCIDENCE	---	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(n)	(n)	(n)	(n)	(n)	(n)
POLY 1.5	(n)	(n)	(n)	(n)	(n)	(n)
POLY 6	(n)	(n)	(n)	(n)	(n)	(n)
COCH-ARM / FISHERS	(n)	(n)	(n)	(n)	(n)	(n)
MAX-ISO-POLY-3	(n)	(n)	(n)	(n)	(n)	(n)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

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First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 14286 WEEKS**

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Lung Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	1/9 (11%)	7/10 (70%)	9/9 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	1/9.00	7/10.00	9/9.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	11.1%	70%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	1/9 (11%)	7/10 (70%)	9/9 (100%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	92(T)	92(T)	92(T)	92(T)	92(T)
STATISTICAL TESTS						
POLY 3	P=0.000**	P=0.479	P=0.000**	P=NA	P=NA	P=NA
POLY 1.5	P=0.000**	P=0.479	P=0.000**	P=NA	P=NA	P=NA
POLY 6	P=0.000**	P=0.479	P=0.000**	P=NA	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	P=0.474	P=0.002**	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	P=0.152	P=0.000**	P=0.000**	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-04

Test Type: 90-DAY

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Species/Strain: Mouse/B6C3F1

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Test Compound: Vanadium pentoxide

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First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Lung: Epithelium Hyperplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/9 (0%)	6/10 (60%)	7/9 (78%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/9.00	6/10.00	7/9.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	60%	77.8%	100%	100%
TERMINAL (d)	0/10 (0%)	0/9 (0%)	6/10 (60%)	7/9 (78%)	10/10 (100%)	10/10 (100%)
FIRST INCIDENCE	---	---	92(T)	92(T)	92(T)	92(T)
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	P<0.001**	P=0.000**	P=NA	P=NA
POLY 1.5	P=0.000**	(e)	P<0.001**	P=0.000**	P=NA	P=NA
POLY 6	P=0.000**	(e)	P<0.001**	P=0.000**	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	P=0.005**	P<0.001**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	P=0.000**	P=0.000**	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

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First Dose M/F: NA / NA

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STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN MOUSE(B6C3F1)
LAST REMOVAL AT 14286 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Thymus						
Depletion Lymphoid						
LESION RATES						
OVERALL(a)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/9.00	0/0.00	0/0.00	0/0.00	0/9.00	1/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	10%
TERMINAL (d)	0/9 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	1/10 (10%)
FIRST INCIDENCE	---	---	---	---	---	92(T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.521
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.521
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.521
COCH-ARM / FISHERS	P=0.283	(e)	(e)	(e)	(e)	P=0.526
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.179
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-04

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/15/2014

Time Report Requested: 13:13:31

First Dose M/F: NA / NA

Lab: IIT

LEGEND

- (a) Number of tumor-bearing animals/number of animals examined at site.
 - (b) Number of tumor-bearing animals/Poly-3 number
 - (d) Observed incidence at terminal kill.
 - (e) Value of statistic cannot be computed.
 - (f) Beneath the control incidence are the P-values associated with the trend test. Beneath the dosed group incidence are the P-values corresponding to pairwise comparisons between the controls and that dosed group.
 - (g) Poly-3 adjusted lifetime tumor incidence.
 - (n) No statistics are calculated if all dose groups have fewer than two tumors.
 - (I) Interim sacrifice
 - (T) Terminal sacrifice
 - # Tumor rates based on numbers of animals necropsied.
 - * To the right of any statistical result, indicates significance at ($P \leq 0.05$).
 - ** To the right of any statistical result, indicates significance at ($P \leq 0.01$).
 - N Indicates a negative trend for all tests
- The Cochran-Armitage and Fishers exact tests compare directly the overall incidence rates.

**** END OF REPORT ****