

Experiment Number: 61427-03
Test Type: 90-DAY
Route: RESPIRATORY EXPOSURE WHOLE BODY
Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:10

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<=.05) RESULTS IN THE ANALYSIS OF VANADIUM PENTOXIDE

MALE RAT

Organ

Bone: Metaphysis

Epididymis

Heart

Liver

Lung

Lung: Bronchiole

Lung: Epithelium

Lung: Perivascular

Lymph Node, Mandibular

Lymph Node, Mediastinal

Lymph Node, Mesenteric

Nose

Nose: Respirat Epith

Preputial Gland

Prostate

Seminal Vesicle

Spleen

Testes

Thymus

FEMALE RAT

Organ

Bone: Metaphysis

Liver

Lung

Morphology

Atrophy

Atypia Cellular

Cardiomyopathy

Hepatodiaphragmatic Nodule

Hemorrhage

Fibrosis

Inflammation

Exudate

Hyperplasia

Inflammation

Depletion Lymphoid

Depletion Lymphoid

Congestion

Depletion Lymphoid

Inflammation

Hyperplasia

Metaplasia

Atrophy

Atrophy

Atrophy

Depletion Lymphoid

Degeneration

Depletion Lymphoid

Morphology

Atrophy

Hepatodiaphragmatic Nodule

Fibrosis

Inflammation

Experiment Number: 61427-03

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SUMMARY OF STATISTICALLY SIGNIFICANT (P<=.05) RESULTS IN THE ANALYSIS OF VANADIUM PENTOXIDE

Lung: Bronchiole
Lung: Epithelium
Lung: Perivascular
Lymph Node, Bronchial
Lymph Node, Mandibular
Lymph Node, Mediastinal
Nose
Nose: Respirat Epith

Ovary
Pancreas
Spleen
Thymus
Uterus

Exudate
Hyperplasia
Inflammation
Depletion Lymphoid
Depletion Lymphoid
Depletion Lymphoid
Inflammation
Hyperplasia
Metaplasia
Cyst
Ectopic Tissue
Depletion Lymphoid
Depletion Lymphoid
Atrophy

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First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Adrenal Cortex						
Hemorrhage						
LESION RATES						
OVERALL(a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/10.00	0/5.45
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/3 (0%)
FIRST INCIDENCE	92(T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.500N	P=0.611N
POLY 1.5	(e)	(e)	(e)	(e)	P=0.500N	P=0.568N
POLY 6	(e)	(e)	(e)	(e)	P=0.500N	P=0.652N
COCH-ARM / FISHERS	P=0.267N	(e)	(e)	(e)	P=0.500N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.159N	P=0.293N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

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 RAT(F 344/N)
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
Bone Marrow						
Hypocellularity						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	2/6.72
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	29.8%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/3 (0%)
FIRST INCIDENCE	---	---	---	---	---	55
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.142
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.171
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.117
COCH-ARM / FISHERS	P=0.089	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.058
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

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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 RAT(F 344/N)
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
Bone: Metaphysis						
Atrophy						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	1/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	100%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	3/3 (100%)
FIRST INCIDENCE	---	---	---	---	92(T)	53
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.500	P=NA
POLY 1.5	(e)	(e)	(e)	(e)	P=0.500	P=NA
POLY 6	(e)	(e)	(e)	(e)	P=0.500	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	P=0.500	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.159	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

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Time Report Requested: 02:32:10

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Epididymis						
Atypia Cellular						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	100%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	3/3 (100%)
FIRST INCIDENCE	---	---	---	---	---	53
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=NA
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=NA
POLY 6	(e)	(e)	(e)	(e)	(e)	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	(e)	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

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 RAT(F 344/N)
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
Heart						
Cardiomyopathy						
LESION RATES						
OVERALL(a)	8/10 (80%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	5/10 (50%)	0/10 (0%)
POLY-3 RATE (b)	8/10.00	0/0.00	0/0.00	0/0.00	5/10.00	0/5.45
POLY-3 PERCENT (g)	80%	0%	0%	0%	50%	0%
TERMINAL (d)	8/10 (80%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	5/10 (50%)	0/3 (0%)
FIRST INCIDENCE	92(T)	---	---	---	92(T)	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.174N	P=0.001N**
POLY 1.5	(e)	(e)	(e)	(e)	P=0.174N	P=0.000N**
POLY 6	(e)	(e)	(e)	(e)	P=0.174N	P=0.016N*
COCH-ARM / FISHERS	P=0.000N**	(e)	(e)	(e)	P=0.175N	P=0.000N**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.080N	P=0.001N**
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

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 RAT(F 344/N)
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						
Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	0/5.45
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/3 (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: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

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First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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						
Mineralization						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	0/5.45
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/3 (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: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

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Time Report Requested: 02:32:10

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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: Papilla						
Degeneration						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	1/5.45
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	18.3%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/3 (33%)
FIRST INCIDENCE	---	---	---	---	---	92(T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.385
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.431
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.341
COCH-ARM / FISHERS	P=0.267	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.152
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

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First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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						
Hepatodiaphragmatic Nodule						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/2 (0%)	1/1 (100%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/2.00	1/1.00	0/10.00	2/5.45
POLY-3 PERCENT (g)	0%	0%	0%	100%	0%	36.7%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/2 (0%)	1/1 (100%)	0/10 (0%)	2/3 (67%)
FIRST INCIDENCE	---	---	---	92(T)	---	92(T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	P=0.091	(e)	P=0.109
POLY 1.5	(e)	(e)	(e)	P=0.091	(e)	P=0.149
POLY 6	(e)	(e)	(e)	P=0.091	(e)	P=0.078
COCH-ARM / FISHERS	P=0.186	(e)	(e)	P=0.091	(e)	P=0.237
MAX-ISO-POLY-3	(e)	(e)	(e)	P=0.000**	(e)	P=0.053
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

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 RAT(F 344/N)
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						
Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/2 (0%)	0/1 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/2.00	0/1.00	0/10.00	0/5.45
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/2 (0%)	0/1 (0%)	0/10 (0%)	0/3 (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: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

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 RAT(F 344/N)
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: Hepatocyte						
Necrosis						
LESION RATES						
OVERALL(a)	2/10 (20%)	0/0 (0%)	0/2 (0%)	0/1 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/2.00	0/1.00	0/10.00	0/5.45
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	0%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/2 (0%)	0/1 (0%)	0/10 (0%)	0/3 (0%)
FIRST INCIDENCE	92(T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	P=0.627N	P=0.786N	P=0.227N	P=0.384N
POLY 1.5	(e)	(e)	P=0.627N	P=0.786N	P=0.227N	P=0.315N
POLY 6	(e)	(e)	P=0.627N	P=0.786N	P=0.227N	P=0.460N
COCH-ARM / FISHERS	P=0.105N	(e)	P=0.682N	P=0.818N	P=0.237N	P=0.237N
MAX-ISO-POLY-3	(e)	(e)	P=0.308N	P=0.369N	P=0.067N	P=0.208N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:10

First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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						
Fibrosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	2/10 (20%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	2/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	20%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	2/10 (20%)	10/10 (100%)	10/10 (100%)	3/3 (100%)
FIRST INCIDENCE	---	---	92(T)	92(T)	92(T)	53
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	P=0.227	P=NA	P=NA	P=NA
POLY 1.5	P=0.000**	(e)	P=0.227	P=NA	P=NA	P=NA
POLY 6	P=0.000**	(e)	P=0.227	P=NA	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	P=0.237	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	P=0.067	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:10

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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						
Hemorrhage						
LESION RATES						
OVERALL(a)	5/10 (50%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	8/10 (80%)	0/10 (0%)
POLY-3 RATE (b)	5/10.00	0/10.00	1/10.00	0/10.00	8/10.00	0/5.45
POLY-3 PERCENT (g)	50%	0%	10%	0%	80%	0%
TERMINAL (d)	5/10 (50%)	0/10 (0%)	1/10 (10%)	0/10 (0%)	8/10 (80%)	0/3 (0%)
FIRST INCIDENCE	92(T)	---	92(T)	---	92(T)	---
STATISTICAL TESTS						
POLY 3	P=0.097	P=0.008N**	P=0.061N	P=0.008N**	P=0.174	P=0.077N
POLY 1.5	P=0.304	P=0.008N**	P=0.061N	P=0.008N**	P=0.174	P=0.033N*
POLY 6	P=0.020*	P=0.008N**	P=0.061N	P=0.008N**	P=0.174	P=0.160N
COCH-ARM / FISHERS	P=0.448N	P=0.016N*	P=0.070N	P=0.016N*	P=0.175	P=0.016N*
MAX-ISO-POLY-3	P=0.042N*	P=0.001N**	P=0.020N*	P=0.001N**	P=0.080	P=0.055N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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%)	0/10 (0%)	9/10 (90%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	9/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	90%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	9/10 (90%)	10/10 (100%)	10/10 (100%)	3/3 (100%)
FIRST INCIDENCE	---	---	92(T)	92(T)	92(T)	53
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	P=0.000**	P=NA	P=NA	P=NA
POLY 1.5	P=0.000**	(e)	P=0.000**	P=NA	P=NA	P=NA
POLY 6	P=0.000**	(e)	P=0.000**	P=NA	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	P=0.000**	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	P=0.000**	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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: Bronchiole						
Exudate						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/10 (70%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	7/10.00	8/8.78
POLY-3 PERCENT (g)	0%	0%	0%	0%	70%	91.1%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/10 (70%)	3/3 (100%)
FIRST INCIDENCE	---	---	---	---	92(T)	53
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	(e)	P=0.000**	P=0.000**
POLY 1.5	P=0.000**	(e)	(e)	(e)	P=0.000**	P=0.000**
POLY 6	P=0.000**	(e)	(e)	(e)	P=0.000**	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	P=0.002**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	P=0.000**	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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%)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	10/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	3/3 (100%)
FIRST INCIDENCE	---	---	92(T)	92(T)	92(T)	53
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	P=NA	P=NA	P=NA	P=NA
POLY 1.5	P=0.000**	(e)	P=NA	P=NA	P=NA	P=NA
POLY 6	P=0.000**	(e)	P=NA	P=NA	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	P=0.000**	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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 Metaplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	0/5.45
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/3 (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: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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: Perivascular Inflammation						
LESION RATES						
OVERALL(a)	9/10 (90%)	7/10 (70%)	9/10 (90%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	9/10.00	7/10.00	9/10.00	0/10.00	0/10.00	0/5.45
POLY-3 PERCENT (g)	90%	70%	90%	0%	0%	0%
TERMINAL (d)	9/10 (90%)	7/10 (70%)	9/10 (90%)	0/10 (0%)	0/10 (0%)	0/3 (0%)
FIRST INCIDENCE	92(T)	92(T)	92(T)	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.000N**	P=0.292N	P=0.760	P=0.000N**	P=0.000N**	P=0.000N**
POLY 1.5	P=0.000N**	P=0.292N	P=0.760	P=0.000N**	P=0.000N**	P=0.000N**
POLY 6	P=0.000N**	P=0.292N	P=0.760	P=0.000N**	P=0.000N**	P=0.002N**
COCH-ARM / FISHERS	P=0.000N**	P=0.291N	P=0.763N	P=0.000N**	P=0.000N**	P=0.000N**
MAX-ISO-POLY-3	P=0.000N**	P=0.138N	P=1.000	P=0.000N**	P=0.000N**	P=0.000N**
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Lymph Node, Bronchial Congestion						
LESION RATES						
OVERALL(a)	1/8 (12%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/5 (0%)
POLY-3 RATE (b)	1/8.00	0/0.00	0/0.00	0/0.00	0/9.00	0/2.48
POLY-3 PERCENT (g)	12.5%	0%	0%	0%	0%	0%
TERMINAL (d)	1/8 (12%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/1 (0%)
FIRST INCIDENCE	92(T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.476N	P=0.694N
POLY 1.5	(e)	(e)	(e)	(e)	P=0.476N	P=0.657N
POLY 6	(e)	(e)	(e)	(e)	P=0.476N	P=0.728N
COCH-ARM / FISHERS	P=0.311N	(e)	(e)	(e)	P=0.471N	P=0.615N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.151N	P=0.365N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Lymph Node, Bronchial						
Depletion Lymphoid						
LESION RATES						
OVERALL(a)	0/8 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	1/5 (20%)
POLY-3 RATE (b)	0/8.00	0/0.00	0/0.00	0/0.00	0/9.00	1/3.26
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	30.7%
TERMINAL (d)	0/8 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/1 (0%)
FIRST INCIDENCE	---	---	---	---	---	55
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.325
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.356
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.292
COCH-ARM / FISHERS	P=0.195	(e)	(e)	(e)	(e)	P=0.385
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.112
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Lymph Node, Bronchial Hyperplasia						
LESION RATES						
OVERALL(a)	0/8 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	1/5 (20%)
POLY-3 RATE (b)	0/8.00	0/0.00	0/0.00	0/0.00	0/9.00	1/2.94
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	34%
TERMINAL (d)	0/8 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/9 (0%)	0/1 (0%)
FIRST INCIDENCE	---	---	---	---	---	75
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.309
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.343
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.280
COCH-ARM / FISHERS	P=0.195	(e)	(e)	(e)	(e)	P=0.385
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.110
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Lymph Node, Mandibular						
Depletion Lymphoid						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	3/8 (38%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	3/6.33
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	47.4%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/3 (33%)
FIRST INCIDENCE	---	---	---	---	---	55
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.025*
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.035*
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.017*
COCH-ARM / FISHERS	P=0.019*	(e)	(e)	(e)	(e)	P=0.069
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.010**
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Lymph Node, Mediastinal Congestion						
LESION RATES						
OVERALL(a)	7/10 (70%)	0/0 (0%)	1/4 (25%)	1/1 (100%)	0/9 (0%)	0/7 (0%)
POLY-3 RATE (b)	7/10.00	0/0.00	1/4.00	1/1.00	0/9.00	0/4.06
POLY-3 PERCENT (g)	70%	0%	25%	100%	0%	0%
TERMINAL (d)	7/10 (70%)	0/0 (0%)	1/4 (25%)	1/1 (100%)	0/9 (0%)	0/2 (0%)
FIRST INCIDENCE	92(T)	---	92(T)	92(T)	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	P=0.170N	P=0.689	P=0.000N**	P=0.030N*
POLY 1.5	(e)	(e)	P=0.170N	P=0.689	P=0.000N**	P=0.008N**
POLY 6	(e)	(e)	P=0.170N	P=0.689	P=0.000N**	P=0.103N
COCH-ARM / FISHERS	P=0.001N**	(e)	P=0.175N	P=0.727	P=0.002N**	P=0.006N**
MAX-ISO-POLY-3	(e)	(e)	P=0.096N	P=0.330	P=0.000N**	P=0.025N*
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Lymph Node, Mediastinal						
Depletion Lymphoid						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/4 (0%)	0/1 (0%)	0/9 (0%)	4/7 (57%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/4.00	0/1.00	0/9.00	4/6.04
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	66.2%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/4 (0%)	0/1 (0%)	0/9 (0%)	1/2 (50%)
FIRST INCIDENCE	---	---	---	---	---	55
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P<0.001**
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.002**
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.000**
COCH-ARM / FISHERS	P<0.001**	(e)	(e)	(e)	(e)	P=0.015*
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Lymph Node, Mesenteric						
Depletion Lymphoid						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	3/10 (30%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	3/6.39
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	46.9%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	1/3 (33%)
FIRST INCIDENCE	---	---	---	---	---	74
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.031*
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.049*
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.021*
COCH-ARM / FISHERS	P=0.031*	(e)	(e)	(e)	(e)	P=0.105
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.016*
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Nose						
Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	7/10 (70%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	7/8.72
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	80.3%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	2/3 (67%)
FIRST INCIDENCE	---	---	---	---	---	53
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	(e)	(e)	P=0.000**
POLY 1.5	P=0.000**	(e)	(e)	(e)	(e)	P=0.000**
POLY 6	P=0.000**	(e)	(e)	(e)	(e)	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	(e)	P=0.002**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Nose: Respirat Epith Hyperplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)	3/3 (100%)
FIRST INCIDENCE	---	---	---	92(T)	92(T)	53
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	P=0.500	P=NA	P=NA
POLY 1.5	P=0.000**	(e)	(e)	P=0.500	P=NA	P=NA
POLY 6	P=0.000**	(e)	(e)	P=0.500	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.500	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P=0.159	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Nose: Respirat Epith Metaplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	1/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	10%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	10/10 (100%)	3/3 (100%)
FIRST INCIDENCE	---	---	---	92(T)	92(T)	53
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	P=0.500	P=NA	P=NA
POLY 1.5	P=0.000**	(e)	(e)	P=0.500	P=NA	P=NA
POLY 6	P=0.000**	(e)	(e)	P=0.500	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.500	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P=0.159	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Pancreas						
Ectopic Tissue						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	0/5.45
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/3 (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: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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						
Atrophy						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	5/10 (50%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	5/7.80
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	64.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	2/3 (67%)
FIRST INCIDENCE	---	---	---	---	---	53
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P<0.001**
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.002**
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.000**
COCH-ARM / FISHERS	P=0.003**	(e)	(e)	(e)	(e)	P=0.016*
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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						
Inflammation Chronic						
LESION RATES						
OVERALL(a)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/0.00	0/0.00	0/0.00	0/10.00	0/5.45
POLY-3 PERCENT (g)	10%	0%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/3 (0%)
FIRST INCIDENCE	92(T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.500N	P=0.611N
POLY 1.5	(e)	(e)	(e)	(e)	P=0.500N	P=0.568N
POLY 6	(e)	(e)	(e)	(e)	P=0.500N	P=0.652N
COCH-ARM / FISHERS	P=0.267N	(e)	(e)	(e)	P=0.500N	P=0.500N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.159N	P=0.293N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Prostate Atrophy						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	9/9.26
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	97.2%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	3/3 (100%)
FIRST INCIDENCE	---	---	---	---	---	53
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.000**
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.000**
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	(e)	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Seminal Vesicle						
Atrophy						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	100%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	3/3 (100%)
FIRST INCIDENCE	---	---	---	---	---	53
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=NA
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=NA
POLY 6	(e)	(e)	(e)	(e)	(e)	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	(e)	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Spleen						
Depletion Lymphoid						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	100%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	3/3 (100%)
FIRST INCIDENCE	---	---	---	---	---	53
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=NA
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=NA
POLY 6	(e)	(e)	(e)	(e)	(e)	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	(e)	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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
Testes						
Degeneration						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	6/10 (60%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	1/10.00	6/7.22
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	83.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	3/3 (100%)
FIRST INCIDENCE	---	---	---	---	92(T)	53
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.500	P=0.000**
POLY 1.5	(e)	(e)	(e)	(e)	P=0.500	P=0.000**
POLY 6	(e)	(e)	(e)	(e)	P=0.500	P=0.000**
COCH-ARM / FISHERS	P=0.002**	(e)	(e)	(e)	P=0.500	P=0.005**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.159	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
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)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	9/9 (100%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	9/9.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	100%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	2/2 (100%)
FIRST INCIDENCE	---	---	---	---	---	53
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=NA
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=NA
POLY 6	(e)	(e)	(e)	(e)	(e)	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	(e)	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Adrenal Cortex						
Hemorrhage						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	0/8.93
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/7 (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: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Bone Marrow						
Hypocellularity						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	0/8.93
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/7 (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: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Bone: Metaphysis						
Atrophy						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	1/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	100%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	7/7 (100%)
FIRST INCIDENCE	---	---	---	---	92(T)	62
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.500	P=NA
POLY 1.5	(e)	(e)	(e)	(e)	P=0.500	P=NA
POLY 6	(e)	(e)	(e)	(e)	P=0.500	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	P=0.500	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.159	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS**

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Heart						
Cardiomyopathy						
LESION RATES						
OVERALL(a)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	2/10.00	0/0.00	0/0.00	0/0.00	0/10.00	0/8.93
POLY-3 PERCENT (g)	20%	0%	0%	0%	0%	0%
TERMINAL (d)	2/10 (20%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/7 (0%)
FIRST INCIDENCE	92(T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.227N	P=0.254N
POLY 1.5	(e)	(e)	(e)	(e)	P=0.227N	P=0.242N
POLY 6	(e)	(e)	(e)	(e)	P=0.227N	P=0.267N
COCH-ARM / FISHERS	P=0.089N	(e)	(e)	(e)	P=0.237N	P=0.237N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.067N	P=0.091N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 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 Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	1/10.00	0/8.93
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	1/10 (10%)	0/7 (0%)
FIRST INCIDENCE	---	---	---	---	92(T)	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.500	(e)
POLY 1.5	(e)	(e)	(e)	(e)	P=0.500	(e)
POLY 6	(e)	(e)	(e)	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.733	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.159	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 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 Mineralization						
LESION RATES						
OVERALL(a)	7/10 (70%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	6/10 (60%)	4/10 (40%)
POLY-3 RATE (b)	7/10.00	0/0.00	0/0.00	0/0.00	6/10.00	4/8.93
POLY-3 PERCENT (g)	70%	0%	0%	0%	60%	44.8%
TERMINAL (d)	7/10 (70%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	6/10 (60%)	4/7 (57%)
FIRST INCIDENCE	92(T)	---	---	---	92(T)	92(T)
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	P=0.500N	P=0.261N
POLY 1.5	(e)	(e)	(e)	(e)	P=0.500N	P=0.227N
POLY 6	(e)	(e)	(e)	(e)	P=0.500N	P=0.306N
COCH-ARM / FISHERS	P=0.130N	(e)	(e)	(e)	P=0.500N	P=0.185N
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	P=0.327N	P=0.148N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 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: Papilla						
Degeneration						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	0/8.93
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/7 (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: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 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						
Hepatodiaphragmatic Nodule						
LESION RATES						
OVERALL(a)	1/10 (10%)	0/1 (0%)	2/2 (100%)	1/1 (100%)	3/10 (30%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	0/1.00	2/2.00	1/1.00	3/10.00	0/8.93
POLY-3 PERCENT (g)	10%	0%	100%	100%	30%	0%
TERMINAL (d)	1/10 (10%)	0/1 (0%)	2/2 (100%)	1/1 (100%)	3/10 (30%)	0/7 (0%)
FIRST INCIDENCE	92(T)	---	92(T)	92(T)	92(T)	---
STATISTICAL TESTS						
POLY 3	P=0.151N	P=0.913N	P=0.005**	P=0.146	P=0.292	P=0.522N
POLY 1.5	P=0.132N	P=0.913N	P=0.005**	P=0.146	P=0.292	P=0.513N
POLY 6	P=0.177N	P=0.913N	P=0.005**	P=0.146	P=0.292	P=0.533N
COCH-ARM / FISHERS	P=0.157N	P=0.909N	P=0.045*	P=0.182	P=0.291	P=0.500N
MAX-ISO-POLY-3	P=0.068N	P=0.411N	P<0.001**	P=0.022*	P=0.138	P=0.187N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 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						
Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/1 (0%)	0/2 (0%)	0/1 (0%)	1/10 (10%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/2.00	0/1.00	1/10.00	0/8.93
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	0%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/2 (0%)	0/1 (0%)	1/10 (10%)	0/7 (0%)
FIRST INCIDENCE	---	---	---	---	92(T)	---
STATISTICAL TESTS						
POLY 3	P=0.641	(e)	(e)	(e)	P=0.500	(e)
POLY 1.5	P=0.661	(e)	(e)	(e)	P=0.500	(e)
POLY 6	P=0.616	(e)	(e)	(e)	P=0.500	(e)
COCH-ARM / FISHERS	P=0.700	(e)	(e)	(e)	P=0.500	(e)
MAX-ISO-POLY-3	P=0.508	(e)	(e)	(e)	P=0.159	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 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: Hepatocyte						
Necrosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/1 (0%)	0/2 (0%)	0/1 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/2.00	0/1.00	0/10.00	0/8.93
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/2 (0%)	0/1 (0%)	0/10 (0%)	0/7 (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: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 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						
Fibrosis						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)	7/7 (100%)
FIRST INCIDENCE	---	---	---	92(T)	92(T)	62
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	P=NA	P=NA	P=NA
POLY 1.5	P=0.000**	(e)	(e)	P=NA	P=NA	P=NA
POLY 6	P=0.000**	(e)	(e)	P=NA	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 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						
Hemorrhage						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	1/8.93
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	11.2%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/7 (14%)
FIRST INCIDENCE	---	---	---	---	---	92(T)
STATISTICAL TESTS						
POLY 3	P=0.097	(e)	(e)	(e)	(e)	P=0.477
POLY 1.5	P=0.101	(e)	(e)	(e)	(e)	P=0.487
POLY 6	P=0.093	(e)	(e)	(e)	(e)	P=0.467
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.074	(e)	(e)	(e)	(e)	P=0.158
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 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%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)	7/7 (100%)
FIRST INCIDENCE	---	---	---	92(T)	92(T)	62
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	P=NA	P=NA	P=NA
POLY 1.5	P=0.000**	(e)	(e)	P=NA	P=NA	P=NA
POLY 6	P=0.000**	(e)	(e)	P=NA	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 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: Bronchiole						
Exudate						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	8/10 (80%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	10/10.00	8/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	100%	80%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	5/7 (71%)
FIRST INCIDENCE	---	---	---	---	92(T)	62
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	(e)	P=NA	P=0.000**
POLY 1.5	P=0.000**	(e)	(e)	(e)	P=NA	P=0.000**
POLY 6	P=0.000**	(e)	(e)	(e)	P=NA	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 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%)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	10/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	100%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)	7/7 (100%)
FIRST INCIDENCE	---	---	92(T)	92(T)	92(T)	62
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	P=NA	P=NA	P=NA	P=NA
POLY 1.5	P=0.000**	(e)	P=NA	P=NA	P=NA	P=NA
POLY 6	P=0.000**	(e)	P=NA	P=NA	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	P=0.000**	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 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 Metaplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	0/10.00	1/8.96
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	11.2%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/7 (0%)
FIRST INCIDENCE	---	---	---	---	---	91
STATISTICAL TESTS						
POLY 3	P=0.097	(e)	(e)	(e)	(e)	P=0.478
POLY 1.5	P=0.101	(e)	(e)	(e)	(e)	P=0.487
POLY 6	P=0.094	(e)	(e)	(e)	(e)	P=0.468
COCH-ARM / FISHERS	P=0.105	(e)	(e)	(e)	(e)	P=0.500
MAX-ISO-POLY-3	P=0.074	(e)	(e)	(e)	(e)	P=0.158
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 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: Perivascular Inflammation						
LESION RATES						
OVERALL(a)	10/10 (100%)	10/10 (100%)	8/10 (80%)	0/10 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	10/10.00	10/10.00	8/10.00	0/10.00	0/10.00	0/8.93
POLY-3 PERCENT (g)	100%	100%	80%	0%	0%	0%
TERMINAL (d)	10/10 (100%)	10/10 (100%)	8/10 (80%)	0/10 (0%)	0/10 (0%)	0/7 (0%)
FIRST INCIDENCE	92(T)	92(T)	92(T)	---	---	---
STATISTICAL TESTS						
POLY 3	P=0.000N**	(e)	P=0.227N	P=NA	P=NA	P=0.000N**
POLY 1.5	P=0.000N**	(e)	P=0.227N	P=NA	P=NA	P=0.000N**
POLY 6	P=0.000N**	(e)	P=0.227N	P=NA	P=NA	P=0.000N**
COCH-ARM / FISHERS	P=0.000N**	(e)	P=0.237N	P=0.000N**	P=0.000N**	P=0.000N**
MAX-ISO-POLY-3	P=0.000N**	(e)	P=0.067N	(e)	(e)	P=0.000N**
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS**

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Lymph Node, Bronchial Congestion						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/9 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	0/8.27
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/7 (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: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Lymph Node, Bronchial						
Depletion Lymphoid						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	5/9 (56%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	5/9.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	55.6%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	3/7 (43%)
FIRST INCIDENCE	---	---	---	---	---	62
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.003**
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.003**
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.003**
COCH-ARM / FISHERS	P=0.002**	(e)	(e)	(e)	(e)	P=0.011*
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P<0.001**
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Lymph Node, Bronchial Hyperplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/9 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	0/8.27
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/7 (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: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Lymph Node, Mandibular						
Depletion Lymphoid						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/1 (0%)	0/1 (0%)	0/1 (0%)	0/10 (0%)	3/8 (38%)
POLY-3 RATE (b)	0/10.00	0/1.00	0/1.00	0/1.00	0/10.00	3/7.66
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	39.2%
TERMINAL (d)	0/10 (0%)	0/1 (0%)	0/1 (0%)	0/1 (0%)	0/10 (0%)	2/6 (33%)
FIRST INCIDENCE	---	---	---	---	---	91
STATISTICAL TESTS						
POLY 3	P=0.007**	(e)	(e)	(e)	(e)	P=0.047*
POLY 1.5	P=0.007**	(e)	(e)	(e)	(e)	P=0.049*
POLY 6	P=0.007**	(e)	(e)	(e)	(e)	P=0.043*
COCH-ARM / FISHERS	P=0.012*	(e)	(e)	(e)	(e)	P=0.069
MAX-ISO-POLY-3	P=0.005**	(e)	(e)	(e)	(e)	P=0.014*
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Lymph Node, Mediastinal Congestion						
LESION RATES						
OVERALL(a)	1/8 (12%)	0/1 (0%)	0/2 (0%)	0/0 (0%)	0/10 (0%)	0/7 (0%)
POLY-3 RATE (b)	1/8.00	0/1.00	0/2.00	0/0.00	0/10.00	0/6.66
POLY-3 PERCENT (g)	12.5%	0%	0%	0%	0%	0%
TERMINAL (d)	1/8 (12%)	0/1 (0%)	0/2 (0%)	0/0 (0%)	0/10 (0%)	0/6 (0%)
FIRST INCIDENCE	92(T)	---	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	P=0.878N	P=0.763N	(e)	P=0.455N	P=0.536N
POLY 1.5	(e)	P=0.878N	P=0.763N	(e)	P=0.455N	P=0.532N
POLY 6	(e)	P=0.878N	P=0.763N	(e)	P=0.455N	P=0.543N
COCH-ARM / FISHERS	P=0.307N	P=0.889N	P=0.800N	(e)	P=0.444N	P=0.533N
MAX-ISO-POLY-3	(e)	P=0.401N	P=0.353N	(e)	P=0.143N	P=0.196N
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Lymph Node, Mediastinal						
Depletion Lymphoid						
LESION RATES						
OVERALL(a)	0/8 (0%)	0/1 (0%)	0/2 (0%)	0/0 (0%)	0/10 (0%)	3/7 (43%)
POLY-3 RATE (b)	0/8.00	0/1.00	0/2.00	0/0.00	0/10.00	3/7.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	42.9%
TERMINAL (d)	0/8 (0%)	0/1 (0%)	0/2 (0%)	0/0 (0%)	0/10 (0%)	2/6 (33%)
FIRST INCIDENCE	---	---	---	---	---	80
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.058
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.058
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.058
COCH-ARM / FISHERS	P=0.011*	(e)	(e)	(e)	(e)	P=0.077
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.014*
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Lymph Node, Mesenteric						
Depletion Lymphoid						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	2/10 (20%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	2/9.66
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	20.7%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/7 (0%)
FIRST INCIDENCE	---	---	---	---	---	62
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.218
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.222
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.212
COCH-ARM / FISHERS	P=0.089	(e)	(e)	(e)	(e)	P=0.237
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.066
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Nose						
Inflammation						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	0/10.00	1/10.00	9/9.31
POLY-3 PERCENT (g)	0%	0%	0%	0%	10%	96.7%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	0/10 (0%)	1/10 (10%)	7/7 (100%)
FIRST INCIDENCE	---	---	---	---	92(T)	80
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	(e)	P=0.500	P=0.000**
POLY 1.5	P=0.000**	(e)	(e)	(e)	P=0.500	P=0.000**
POLY 6	P=0.000**	(e)	(e)	(e)	P=0.500	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	P=0.500	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	(e)	P=0.159	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Nose: Respirat Epith Hyperplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	10/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	100%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	10/10 (100%)	10/10 (100%)	7/7 (100%)
FIRST INCIDENCE	---	---	---	92(T)	92(T)	62
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	P=NA	P=NA	P=NA
POLY 1.5	P=0.000**	(e)	(e)	P=NA	P=NA	P=NA
POLY 6	P=0.000**	(e)	(e)	P=NA	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

**STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS**

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Nose: Respirat Epith Metaplasia						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)	10/10 (100%)	10/10 (100%)
POLY-3 RATE (b)	0/10.00	0/10.00	0/10.00	8/10.00	10/10.00	10/10.00
POLY-3 PERCENT (g)	0%	0%	0%	80%	100%	100%
TERMINAL (d)	0/10 (0%)	0/10 (0%)	0/10 (0%)	8/10 (80%)	10/10 (100%)	7/7 (100%)
FIRST INCIDENCE	---	---	---	92(T)	92(T)	62
STATISTICAL TESTS						
POLY 3	P=0.000**	(e)	(e)	P=0.000**	P=NA	P=NA
POLY 1.5	P=0.000**	(e)	(e)	P=0.000**	P=NA	P=NA
POLY 6	P=0.000**	(e)	(e)	P=0.000**	P=NA	P=NA
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	P=0.000**	P=0.000**	P=0.000**
MAX-ISO-POLY-3	P=0.000**	(e)	(e)	P=0.000**	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Ovary Cyst						
LESION RATES						
OVERALL(a)	1/10 (10%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	1/10.00	1/1.00	0/0.00	0/0.00	0/10.00	0/8.93
POLY-3 PERCENT (g)	10%	100%	0%	0%	0%	0%
TERMINAL (d)	1/10 (10%)	1/1 (100%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	0/7 (0%)
FIRST INCIDENCE	92(T)	92(T)	---	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	P=0.146	(e)	(e)	P=0.500N	P=0.522N
POLY 1.5	(e)	P=0.146	(e)	(e)	P=0.500N	P=0.513N
POLY 6	(e)	P=0.146	(e)	(e)	P=0.500N	P=0.533N
COCH-ARM / FISHERS	P=0.119N	P=0.182	(e)	(e)	P=0.500N	P=0.500N
MAX-ISO-POLY-3	(e)	P=0.022*	(e)	(e)	P=0.159N	P=0.187N
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Pancreas						
Ectopic Tissue						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/10 (0%)	0/10 (0%)
POLY-3 RATE (b)	0/10.00	0/0.00	1/1.00	0/0.00	0/10.00	0/8.93
POLY-3 PERCENT (g)	0%	0%	100%	0%	0%	0%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	1/1 (100%)	0/0 (0%)	0/10 (0%)	0/7 (0%)
FIRST INCIDENCE	---	---	92(T)	---	---	---
STATISTICAL TESTS						
POLY 3	(e)	(e)	P=0.091	(e)	(e)	(e)
POLY 1.5	(e)	(e)	P=0.091	(e)	(e)	(e)
POLY 6	(e)	(e)	P=0.091	(e)	(e)	(e)
COCH-ARM / FISHERS	P=0.389N	(e)	P=0.091	(e)	(e)	(e)
MAX-ISO-POLY-3	(e)	(e)	P=0.000**	(e)	(e)	(e)
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Spleen						
Depletion Lymphoid						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	9/10 (90%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	9/10.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	90%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	6/7 (86%)
FIRST INCIDENCE	---	---	---	---	---	62
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.000**
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.000**
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	(e)	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTES						
CURR VS HC SAME RTE						
CURR VS HC ALL RTES						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 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)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	8/9 (89%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	8/9.00
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	88.9%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	6/7 (86%)
FIRST INCIDENCE	---	---	---	---	---	62
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.000**
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.000**
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	(e)	P=0.000**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

First Dose M/F: NA / NA

Lab: IIT

STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS IN RAT(F 344/N)
LAST REMOVAL AT 13 WEEKS

DOSE	FEMALE					
	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Uterus						
Atrophy						
LESION RATES						
OVERALL(a)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	7/10 (70%)
POLY-3 RATE (b)	0/10.00	0/0.00	0/0.00	0/0.00	0/10.00	7/8.96
POLY-3 PERCENT (g)	0%	0%	0%	0%	0%	78.1%
TERMINAL (d)	0/10 (0%)	0/0 (0%)	0/0 (0%)	0/0 (0%)	0/10 (0%)	6/7 (86%)
FIRST INCIDENCE	---	---	---	---	---	91
STATISTICAL TESTS						
POLY 3	(e)	(e)	(e)	(e)	(e)	P=0.000**
POLY 1.5	(e)	(e)	(e)	(e)	(e)	P=0.000**
POLY 6	(e)	(e)	(e)	(e)	(e)	P=0.000**
COCH-ARM / FISHERS	P=0.000**	(e)	(e)	(e)	(e)	P=0.002**
MAX-ISO-POLY-3	(e)	(e)	(e)	(e)	(e)	P=0.000**
HISTCONT SAME RTE						
HISTCONT ALL RTEs						
CURR VS HC SAME RTE						
CURR VS HC ALL RTEs						

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

P10: STATISTICAL ANALYSIS OF NON-NEOPLASTIC LESIONS

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:32:11

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 ****