

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

C Number: C61427B
Lock Date: 08/18/1999
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: 12/05/2000

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 1	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 39197
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Kidney		Nephropathy	Chronic, Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-10]			
* Spleen		Pigmentation	Moderate
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 1,2-9]			
[Atrophy TGLS = 3-9]			
* Thyroid Gland	C Cell	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 2	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 677 HISTO: 39198
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Hemorrhage	Minimal
* Kidney		Nephropathy	Chronic, Moderate
* Larynx		Foreign Body	
		Inflammation	Suppurative, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung	Interstitium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
[Fibrosis TGLS = 4-15]			
* Mammary Gland		Galactocele	Marked
[Galactocele TGLS = 2-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			
* Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 1-13]			

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Brain Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 3	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 710 HISTO: 39199
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal
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OBSERVATIONS

* Kidney		Nephropathy	Chronic, Moderate
* Larynx		Inflammation	Suppurative, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Hemorrhage	Marked
[Adenoma TGLS = 1-10]			
* Prostate		Inflammation	Suppurative, Moderate
* Spleen		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Trachea		Inflammation	Suppurative, Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 617

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39200

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney	Renal Tubule	Adenoma	
		Nephropathy	Chronic, Marked
* Liver	Bile Duct	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mediastinal		Pigmentation	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 2-10]	
* Skin		Hyperkeratosis	Moderate
		[Hyperkeratosis TGLS = 1-13]	
* Spleen		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 1-13]	
* Stomach, Forestomach		Ulcer	Marked
		[Ulcer TGLS = 3-10]	
* Thyroid Gland	C Cell	Hyperplasia	Mild
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 617

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39200

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Stomach;Forestomach Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 5	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 39201
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Chronic, Mild
* Liver		Clear Cell Focus	
* Lung		Hemorrhage	Moderate
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Mild
Note: focal bronchiolization around hemorrhagic focus on slide 5.			
			[Hemorrhage TGLS = 2-5]
			[Infiltration Cellular TGLS = 2-5]
* Lymph Node, Bronchial		Pigmentation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
			[Adenoma TGLS = 3,4-9]
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 6	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 612 HISTO: 39202
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Sarcoma	Metastatic (Skin)
* Bone	Cranium	Sarcoma	Metastatic (Skin)
[Sarcoma TGLS = 1,8-11+12+15]			
* Bone Marrow		Sarcoma	Metastatic (Skin)
* Heart		Sarcoma	Metastatic (Skin)
[Sarcoma TGLS = 9-6]			
* Liver		Sarcoma	Metastatic (Skin)
[Sarcoma TGLS = 6-6]			
* Lung		Sarcoma	Metastatic (Skin)
[Sarcoma TGLS = 5-4+5]			
* Lymph Node, Bronchial		Sarcoma	Metastatic (Skin)
* Lymph Node, Mandibular		Sarcoma	Metastatic (Skin)
[Sarcoma TGLS = 1-15]			
* Lymph Node, Mediastinal		Sarcoma	Metastatic (Skin)
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Skin	Subcut Tiss	Sarcoma	
[Sarcoma TGLS = 1,7-13+14+15+16]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 612

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39202

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-9+17]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39203

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 1-7]			
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronic, Minimal
* Larynx		Inflammation	Chronic, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Portal	Inflammation	Chronic Active, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
Note: Note: lesion in slide 13 is interpreted as A/B adenoma, although this section was taken from lung prior to inflation, as a normal oncogene tissue control.			
* Lymph Node, Bronchial		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 2-16]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9+14]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 8	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 561 HISTO: 39204
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-7]			
* Heart	Atrium	Thrombosis	Mild
* Kidney		Nephropathy	Chronic, Minimal
	Renal Tubule	Pigmentation	Moderate
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-13]			
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 9	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 694 HISTO: 39205
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Kidney		Accumulation, Hyaline Droplet	Marked
	Cortex	Cyst	Moderate
	[Cyst TGLS = 4-7]		
* Larynx		Inflammation	Suppurative, Minimal
* Liver		Fibrous Histiocytoma	Metastatic (Skin)
	[Fibrous Histiocytoma TGLS = 6-6]		
* Lung		Fibrous Histiocytoma	Metastatic (Skin)
	Alveolus	Hemorrhage	Moderate
	[Fibrous Histiocytoma TGLS = 1-4+5]	Infiltration Cellular	Histiocyte, Minimal
	[Hemorrhage TGLS = 1-4+5]		
* Lymph Node, Bronchial		Fibrous Histiocytoma	Metastatic (Skin)
* Lymph Node, Mediastinal		Fibrous Histiocytoma	Metastatic (Skin)
Mesentery		Fibrous Histiocytoma	Metastatic (Skin)
	[Fibrous Histiocytoma TGLS = 5,8-14+15+16]		
* Pancreas		Fibrous Histiocytoma	Metastatic (Skin)
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-10]		
* Skin	Subcut Tiss	Fibrous Histiocytoma	
	[Fibrous Histiocytoma TGLS = 7-13+17+18]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 9	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 694 HISTO: 39205
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ORGAN AND ACCOUNTABLE SITE STATUS			
* Spleen		Hematopoietic Cell Proliferation	Marked
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			

PRIMARY CAUSE OF DEATH	- Skin Subcut Tiss Fibrous Histiocytoma		
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39206

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx		Inflammation	Chronic, Minimal
* Lung	Interstitial	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Mild
[Hyperplasia TGLS = 6-5]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			
* Skin		Cyst	Marked
	Subcut Tiss	Fibroma	
[Cyst TGLS = 1-25]			
[Fibroma TGLS = 2-24+26]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-9]			

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 652

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39207

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone Marrow	* Brain	Ear
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Necrosis	Marked
* Adrenal Medulla		Necrosis	Marked
* Bone		Pheochromocytoma Benign	
[Fibrosarcoma TGLS = 6-11+12+18]		Fibrosarcoma	Metastatic (Skin)
* Heart	Ventricle	Hypertrophy	Moderate
* Intestine Small, Jejunum		Carcinoma	
[Carcinoma TGLS = 4-14+17]			
* Kidney		Nephropathy	Chronic, Minimal
Lacrimal Gland		Fibrosarcoma	Metastatic (Skin)
* Lung	Interstitium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
* Skin		Fibrosarcoma	
[Fibrosarcoma TGLS = 1-11+13+16+18]			
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 3-6]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Moderate
[Adenoma TGLS = 2-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 652

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39207

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Adrenal Cortex Necrosis;Adrenal Medulla Necrosis;Adrenal Medulla Pheochromocytoma Benign;Intestine Small;Jejunum Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 666

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39208

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Marked
* Liver		Vacuolization Cytoplasmic	Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Prostate		Inflammation	Suppurative, Marked
[Inflammation TGLS = 2-10+13+14]			
* Spleen		Accessory Spleen	
[Accessory Spleen TGLS = 4-16]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39209

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronic, Moderate
* Larynx		Inflammation	Suppurative, Minimal
* Liver		Clear Cell Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 4-5]		
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2,3-10]		
* Spleen		Fibrosis	Mild
	[Fibrosis TGLS = 1-16]		
* Testes	Bilateral, Interstit Cell	Adenoma	
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 666

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39210

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Liver	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla [Hyperplasia TGLS = 1-7]		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronic, Mild
* Pituitary Gland [Adenoma TGLS = 2-10]	Pars Distalis	Adenoma	
* Prostate		Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 589

DOSE: CONTROL

DISP: Natural Death

HISTO: 39211

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-------------------|---------------------------|--------------------------|-------------------|
| * Adrenal Cortex | * Adrenal Medulla | Blood Vessel | * Bone |
| * Bone Marrow | * Brain | * Epididymis | * Esophagus |
| * Heart | * Islets, Pancreatic | * Kidney | * Larynx |
| * Lung | * Lymph Node, Mediastinal | * Lymph Node, Mesenteric | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Pituitary Gland |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Testes |
| * Thymus | * Thyroid Gland | * Trachea | * Urinary Bladder |

MISSING

- | | |
|-------------------------|--------------------------|
| * Lymph Node, Bronchial | * Lymph Node, Mandibular |
|-------------------------|--------------------------|

AUTO PRECLUDES DIAG.

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | | |

OBSERVATIONS

- | | |
|-------------------------------------|----------------------|
| * Liver | Leukemia Mononuclear |
| [Leukemia Mononuclear TGLS = 3-6] | |
| * Spleen | Leukemia Mononuclear |
| [Leukemia Mononuclear TGLS = 2-6] | |

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39212

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronic, Mild
* Liver		Hepatodiaphragmatic Nodule	
		Vacuolization Cytoplasmic	Mild
	[Hepatodiaphragmatic Nodule TGLS = 4,5-6]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-16+18]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-10]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-9+14]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 589

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39213

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Liver	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-9+14]			
* Heart	Valve	Hemorrhage	Moderate
* Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 5-7]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-7]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 7-14]			
* Nose		Inflammation	Chronic, Minimal
* Spleen		Hemorrhage	Marked
		Leukemia Mononuclear	
[Hemorrhage TGLS = 3,4-13]			
[Leukemia Mononuclear TGLS = 2-13]			
* Stomach, Forestomach		Ulcer	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 589

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39213

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-9+15]

Tooth

Peridont Tiss

Inflammation

Suppurative, Mild

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 708

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39214

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 6-7]			
* Kidney		Nephropathy	Chronic, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
[Leukemia Mononuclear TGLS = 2,3-6]		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Prostate		Inflammation	Suppurative, Moderate
[Inflammation TGLS = 7-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4,5-13]			
* Urinary Bladder	Transit Epithe	Hyperplasia	Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 708

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39214

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39215

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-7]			
* Kidney		Nephropathy	Chronic, Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6+23]			
* Lung	Alveolus	Alveolar/Bronchiolar Adenoma Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
[Alveolar/Bronchiolar Adenoma TGLS = 6-5]			
[Leukemia Mononuclear TGLS = 6-5]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3,4-24]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39215

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39216

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Chronic, Moderate
* Lymph Node, Mediastinal		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 2-6]			
* Testes	Germinal Epith	Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39217

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Liver		Leukemia Mononuclear	
* Lymph Node, Bronchial		Pigmentation	Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 666

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39218

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Kidney		Nephropathy	Chronic, Minimal
* Liver	Bile Duct	Hyperplasia	Marked
	Portal	Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2,3-4+5+15]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Galactocele	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-10]		
* Skin		Keratoacanthoma	Multiple
	[Keratoacanthoma TGLS = 1,9-13+14]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 22	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 666 HISTO: 39218
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Fibrosis TGLS = 7-17] [Leukemia Mononuclear TGLS = 6-17]		Fibrosis Leukemia Mononuclear	Marked
* Testes [Adenoma TGLS = 8-9]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 617

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39219

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-15]			
* Kidney		Nephropathy	Chronic, Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-14]			
* Nose		Foreign Body	
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Prostate		Inflammation	Suppurative, Moderate
* Skin		Hyperkeratosis	Marked
[Hyperkeratosis TGLS = 6-16]			
* Spleen		Hemorrhage	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 617

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39219

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

[Hemorrhage TGLS = 2-13]

[Leukemia Mononuclear TGLS = 1-13]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 4-9+17]

* Thyroid Gland

C Cell

Hyperplasia

Marked

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 624

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39220

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
* Intestine Small, Duodenum		Inflammation	Suppurative, Mild
[Inflammation TGLS = 6-8]			
* Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 3-7]			
* Larynx		Inflammation	Suppurative, Mild
* Liver		Vacuolization Cytoplasmic	Marked
[Vacuolization Cytoplasmic TGLS = 7-6]			
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Skin	Subcut Tiss	Fibroma	
Note: SQ mass is not typical of fibromas assoc			
Note: mammary glands. Mature collagenous mass.			
[Fibroma TGLS = 2-13]			
* Stomach, Forestomach		Hyperkeratosis	Moderate
		Ulcer	Marked
[Ulcer TGLS = 5-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 24	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 624 HISTO: 39220
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ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular [Erosion TGLS = 4-10]		Erosion	Marked
* Testes	Germinal Epith	Atrophy	Mild
PRIMARY CAUSE OF DEATH	- Kidney Nephropathy		
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma;Stomach;Forestomach Ulcer;Stomach;Glandular Erosion		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 373

DOSE: CONTROL

DISP: Natural Death

HISTO: 39221

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Islets, Pancreatic	* Larynx	* Liver	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Mammary Gland
* Salivary Glands			

AUTO PRECLUDES DIAG.

* Intestine Large, Colon	* Intestine Small, Jejunum
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OBSERVATIONS

* Bone [Osteosarcoma TGLS = 2-13]	Mandible	Osteosarcoma	
* Int Lg Cecum Note: Cecum is somewhat autolyzed but normal histologically. Dilatation at necropsy was related to autolysis.			
* Kidney [Cyst TGLS = 4-14]	Cortex	Cyst	Marked
* Lung Note: Mets in both lungs. [Osteosarcoma TGLS = 1-4+5]		Osteosarcoma	Metastatic (Bone)

PRIMARY CAUSE OF DEATH

- Bone Mandible Osteosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39222

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Brain		Hemorrhage	Marked
		Necrosis	Moderate
[Hemorrhage TGLS = 4-1]			
[Necrosis TGLS = 4-1]			
* Kidney		Nephropathy	Chronic, Mild
* Liver	Portal	Inflammation	Chronic Active, Minimal
* Lymph Node, Mediastinal		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Hemorrhage	Marked
[Adenoma TGLS = 2-10]			
[Hemorrhage TGLS = 2-10]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 589

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39223

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Larynx		Inflammation	Suppurative, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
Lymph Node	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-14]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Hemorrhage	Marked
[Hemorrhage TGLS = 5,6-13]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-13]			
* Stomach, Forestomach		Diverticulum	
[Diverticulum TGLS = 7-10]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 589

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39223

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Spleen Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 705

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39224

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Leukemia Mononuclear Nephropathy	Chronic, Mild
[Leukemia Mononuclear TGLS = 8-7]			
[Nephropathy TGLS = 8-7]			
* Larynx		Inflammation	Suppurative, Minimal
* Liver		Hepatodiaphragmatic Nodule Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 6-6]			
[Leukemia Mononuclear TGLS = 7-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear Pigmentation	Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-10]			
* Spleen		Hemorrhage Leukemia Mononuclear	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 705

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39224

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 5-13]

[Leukemia Mononuclear TGLS = 4-13]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-9]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Leukemia Mononuclear;Spleen Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 666

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39225

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	Penis	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Kidney		Nephropathy	Chronic, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2,3-6]			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Squamous, Minimal
[Fibrosis TGLS = 1-13]			
[Leukemia Mononuclear TGLS = 2,3-6]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-9]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-10]			
* Spleen		Fibrosis	Moderate
		Hemorrhage	Marked
		Leukemia Mononuclear	
[Fibrosis TGLS = 7-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 666

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39225

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 6-15]

[Leukemia Mononuclear TGLS = 5-16]

* Testes

Interstit Cell

Adenoma

[Adenoma TGLS = 10-9]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Spleen Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 502

DOSE: CONTROL

DISP: Natural Death

HISTO: 39226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Kidney	* Larynx	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Liver		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Spleen		Hemorrhage	Marked
		Leukemia Mononuclear	
[Hemorrhage TGLS = 2-14]			
[Leukemia Mononuclear TGLS = 1-13]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Spleen Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 650

DOSE: CONTROL

DISP: Natural Death

HISTO: 39227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Esophagus	* Heart	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Brain		Hemorrhage	Moderate
* Epididymis	Bilateral	Mesothelioma Malignant	
* Lymph Node, Mediastinal		Pigmentation	Mild
* Nose		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Hemorrhage	Marked
[Adenoma TGLS = 1-8]			
[Hemorrhage TGLS = 1-8]			
* Testes	Interstit Cell	Adenoma	
	Bilateral	Mesothelioma Malignant	
[Adenoma TGLS = 2-13]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Brain Hemorrhage; Pituitary Gland Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			
* Skin		Hyperkeratosis	Marked
[Hyperkeratosis TGLS = 4-21]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-23]			
* Testes	Interstitial Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 636

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39229

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Mammary Gland	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

MISSING

* Lymph Node, Bronchial

INSUFFICIENT TISSUE

* Larynx

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain		Hemorrhage	Marked
[Hemorrhage TGLS = 7-1]			
* Kidney	Pelvis	Dilatation	Minimal
[Dilatation TGLS = 6-7]		Nephropathy	Chronic, Moderate
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 3-13]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-6+13]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
[Leukemia Mononuclear TGLS = 3-13]		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-8]			
* Nose	Goblet Cell, Respirat Epith	Foreign Body	
		Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 33	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 636 HISTO: 39229
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Inflammation	Suppurative, Marked
* Spleen		Atrophy	Mild
[Leukemia Mononuclear TGLS = 2-14]		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 8-9+16]			
* Urinary Bladder		Hemorrhage	Marked
[Hemorrhage TGLS = 5-15]			

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Brain Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 638

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39230

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Chronic, Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Fibrous Histiocytoma	Metastatic (Skin)
		Hemorrhage	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	Alveolus	Pigmentation	Mild
[Fibrous Histiocytoma TGLS = 4-4+5]			
[Leukemia Mononuclear TGLS = 4-4+5]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin		Fibrous Histiocytoma	
[Fibrous Histiocytoma TGLS = 2-13]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-9+15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 638

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39230

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39231

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Kidney		Nephropathy	Chronic, Mild
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			
* Preputial Gland		Hyperplasia	Moderate
		Inflammation	Chronic, Marked
[Hyperplasia TGLS = 1-9]			
[Inflammation TGLS = 1-9]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 477

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39232

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Bone	Vertebra	Fracture	
[Fracture TGLS = 4-13]			
* Heart		Cardiomyopathy	Mild
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 2,3-6+14]			
Penis		Necrosis	Marked
[Necrosis TGLS = 5-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Suppurative, Marked
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate
[Hyperplasia TGLS = 1-16]			

PRIMARY CAUSE OF DEATH - Bone Vertebra Fracture

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 669

DOSE: CONTROL

DISP: Natural Death

HISTO: 39233

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Heart
* Islets, Pancreatic	* Kidney	* Larynx	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose	

OBSERVATIONS

* Brain		Hemorrhage	Moderate
[Hemorrhage TGLS = 5-1]			
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Hemorrhage	Marked
		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-13]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Brain Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39234

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Epididymis		Inflammation	Granulomatous, Moderate
* Kidney		Nephropathy	Chronic, Mild
* Liver	Bile Duct	Hyperplasia	Mild
	Portal	Inflammation	Chronic Active, Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Mild
Mesentery		Hemorrhage	Moderate
	Fat	Necrosis	Moderate
[Hemorrhage TGLS = 2-16]			
[Necrosis TGLS = 2-16]			
* Nose		Foreign Body	
		Inflammation	Suppurative, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9+14]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 708

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39235

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 3-7]			
* Liver		Vacuolization Cytoplasmic	Marked
* Lung	Interstitial	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 2-5]			
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
		Inflammation	Suppurative, Minimal
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
[Hyperplasia TGLS = 4-10]			
* Stomach, Glandular		Necrosis	Moderate
[Necrosis TGLS = 4,5-10]			
* Testes	Germinal Epith	Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 708

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39235

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39236

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Islets, Pancreatic		Carcinoma	
* Kidney		Nephropathy	Chronic, Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			
* Skin	Subcut Tiss	Lipoma	
[Lipoma TGLS = 1-16+17]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39237

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronic, Marked
* Larynx		Inflammation	Suppurative, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-25]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			
* Prostate		Hyperplasia	Minimal
* Skin		Cyst	Marked
[Cyst TGLS = 1-24]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 4,5-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39238

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

Eye [Atrophy TGLS = 1-25]		Atrophy	Marked
* Kidney		Nephropathy	Chronic, Minimal
* Larynx [Foreign Body TGLS = 2,3-9]		Foreign Body Inflammation	Chronic, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Prostate		Inflammation	Suppurative, Mild
* Skin [Keratoacanthoma TGLS = 4-26]		Keratoacanthoma	
* Testes [Adenoma TGLS = 2,3-9]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39239

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Kidney		Nephropathy	Chronic, Mild
* Liver		Leukemia Mononuclear	
* Lung	Interstitial	Fibrosis	Minimal
	Alveolar Epith	Hemorrhage	Mild
	Alveolus	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Hemorrhage TGLS = 1-24]			
[Hyperplasia TGLS = 1-24]			
* Nose	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Prostate		Inflammation	Suppurative, Moderate
* Spleen		Hemorrhage	Marked
		Leukemia Mononuclear	
[Hemorrhage TGLS = 4-25]			
[Leukemia Mononuclear TGLS = 5-26]			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39239

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-9]

Tooth

Peridont Tiss

Inflammation

Suppurative, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 619

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39240

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
		Myelofibrosis	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronic, Moderate
	[Nephropathy TGLS = 7-7+16]		
* Larynx		Inflammation	Suppurative, Mild
* Liver		Leukemia Mononuclear	
	Hepatocyte	Regeneration	Marked
	[Leukemia Mononuclear TGLS = 5-6+15]		
	[Regeneration TGLS = 6-15]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6+15]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-10]		
* Spleen		Hemorrhage	Marked
		Leukemia Mononuclear	
	[Hemorrhage TGLS = 3-14]		
	[Leukemia Mononuclear TGLS = 4-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 44	TRT#: 1 DOSE: CONTROL	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 619 HISTO: 39240
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2-9]	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 701

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39241

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 7-7]			
* Larynx		Foreign Body	
		Inflammation	Suppurative, Moderate
* Liver		Hepatodiaphragmatic Nodule	
	Serosa	Inflammation	Suppurative, Marked
		Vacuolization Cytoplasmic	Marked
[Hepatodiaphragmatic Nodule TGLS = 6-14]			
[Inflammation TGLS = 5-6]			
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 8-17]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-10]			
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Fibrosis	Marked
		Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 701

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39241

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Lipoma TGLS = 2-16+13]	Subcut Tiss	Lipoma	
* Stomach, Forestomach [Inflammation TGLS = 5-10+15]		Inflammation	Suppurative, Marked
* Stomach, Glandular		Inflammation	Suppurative, Marked
* Testes	Germinal Epith	Atrophy	Marked
Tooth	Peridont Tiss	Inflammation	Suppurative, Marked

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Stomach;Forestomach Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39242

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

MISSING

* Mammary Gland	* Parathyroid Gland	* Urinary Bladder
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Mild
[Pheochromocytoma Benign TGLS = 2-9]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronic, Moderate
* Liver	Bile Duct	Hyperplasia	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 5-4]			
* Spleen		Fibrosis Hematopoietic Cell Proliferation	Moderate Moderate
[Fibrosis TGLS = 4-17]			
[Hematopoietic Cell Proliferation TGLS = 3-16]			
* Testes	Interstit Cell Interstit Cell	Adenoma Hyperplasia	Mild
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39243

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Larynx	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Liver	Bile Duct	Hyperplasia	Mild
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Respirat Epith	Mineralization	Mild
* Prostate		Inflammation	Suppurative, Moderate
* Skin	Subcut Tiss	Inflammation	Granulomatous, Mild
		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-24]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39244

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose		Inflammation	Suppurative, Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Prostate		Inflammation	Suppurative, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 628

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39245

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
[Infiltration Cellular TGLS = 4-14]		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-13]			
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 610

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39246

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Leukemia Mononuclear	
* Heart	Atrium	Thrombosis	Moderate
* Intestine Small, Jejunum	Peyers Patch	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-16]			
* Larynx		Inflammation	Suppurative, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6,7-10]			
* Prostate		Inflammation	Suppurative, Mild
* Skin		Hyperkeratosis	Mild
[Hyperkeratosis TGLS = 1-18]			
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 4-14]		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 610

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39246

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-13]

* Stomach, Glandular

Necrosis

Mild

* Testes

Bilateral, Interstit Cell

Adenoma

* Thymus

Leukemia Mononuclear

Tooth

Peridont Tiss

Inflammation

Suppurative, Mild

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 201

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39497

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Foreign Body	
		Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Mild
[Hyperplasia TGLS = 5-13]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Moderate
[Adenoma TGLS = 4-9]			
[Hyperplasia TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 202

TRT#: 3

SEX: Male

DAY ON TEST: 652

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Brain		Meningioma Malignant	
Note: Recuts, PAS stain on brain mass: few PAS+ granules in cytoplasm. Very pleomorphic tumor.			
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
		Vacuolization Cytoplasmic	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
[Alveolar/Bronchiolar Carcinoma TGLS = 2-13]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Stomach, Forestomach		Inflammation	Suppurative, Moderate
	Arteriole	Necrosis	Moderate
[Inflammation TGLS = 4-14]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Brain Meningioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 202

TRT#: 3

SEX: Male

DAY ON TEST: 652

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39498

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Stomach;Forestomach Inflammation;Stomach;Forestomach Arteriole Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 203

TRT#: 3

SEX: Male

DAY ON TEST: 673

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39499

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Lymphoid, Moderate
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Lung	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	[Hyperplasia TGLS = 7-13]		
	[Infiltration Cellular TGLS = 7-13]		
* Lymph Node, Mandibular		Inflammation	Acute, Moderate
	[Inflammation TGLS = 1-14]		
* Nose	Globet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-10]		
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 2,3-15]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 6-9]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 203

TRT#: 3

SEX: Male

DAY ON TEST: 673

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39499

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Keratoacanthoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 204

TRT#: 3

SEX: Male

DAY ON TEST: 684

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-14]			
* Larynx	Epiglottis, Respirat Epith	Hyperplasia Inflammation	Mild Chronic, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
[Leukemia Mononuclear TGLS = 1-6]			
* Lung	Alveolus	Infiltration Cellular Leukemia Mononuclear	Histiocyte, Mild
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear Pigmentation	Mild
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 6-14]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear Necrosis	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 204	TRT#: 3	SEX: Male	DAY ON TEST: 684
	DOSE: 0.5 MG/M3	DISP: Moribund Sacrifice	HISTO: 39500

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-13]			
[Necrosis TGLS = 3-13]			
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Atrophy	Marked
[Adenoma TGLS = 4,5-9]			
[Atrophy TGLS = 4-9]			

PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Spleen	Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 205

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronic, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Bronchial		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 3-13+6]			
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
[Adenoma TGLS = 5-9]			
[Atrophy TGLS = 4-9]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 206

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Inflammation	Chronic, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-13]			
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
[Adenoma TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 207

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Mammary Gland	* Nose	Oral Mucosa	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Chronic, Mild
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 9-6]			
* Lung	Interstitial	Fibrosis	Marked
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-4+5]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-3]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-3]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 207

TRT#: 3
DOSE: 0.5 MG/M3

SEX: Male
DISP: Terminal Sacrifice

DAY ON TEST: 731
HISTO: 39503

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Hyperplasia	Minimal
* Skin	Subcut Tiss	Inflammation	Granulomatous, Moderate
[Inflammation TGLS = 1-13]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 4-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 208

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Testes	Interstit Cell	Adenoma	

[Adenoma TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 209

TRT#: 3

SEX: Male

DAY ON TEST: 620

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Epididymis
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Larynx	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Angiectasis	Marked
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Marked
[Hemorrhage TGLS = 8-1]			
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 10-17]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-5]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-13]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-16]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-18]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-16]			
Mesentery	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 209	TRT#: 3	SEX: Male	DAY ON TEST: 620
	DOSE: 0.5 MG/M3	DISP: Moribund Sacrifice	HISTO: 39505

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 6-15]			
* Pituitary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-10]			
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 4-14]			
[Leukemia Mononuclear TGLS = 3-13]			
* Stomach, Glandular		Necrosis	Moderate
[Necrosis TGLS = 12-18]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 11-9]			

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Brain Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 210

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
* Lymph Node, Bronchial		Fibrosis	Mild
		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Mild
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-13]			
* Spleen		Fibrosis	Marked
[Fibrosis TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 211

TRT#: 3

SEX: Male

DAY ON TEST: 708

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Mild
* Liver		Vacuolization Cytoplasmic	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose		Foreign Body	
	Globet Cell, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-10]		
* Spleen		Pigmentation	Marked
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-9]		

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 212

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign Carcinoma	Moderate
* Islets, Pancreatic [Carcinoma TGLS = 3-6]			
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Hyperplasia Inflammation	Minimal Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Pituitary Gland [Adenoma TGLS = 2-10]	Pars Distalis	Adenoma	
* Prostate		Inflammation	Suppurative, Minimal
* Testes [Adenoma TGLS = 1-9]	Interstitial Cell Germinal Epith	Adenoma Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 213

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Malignant	Mild
[Pheochromocytoma Malignant TGLS = 2-7]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronic, Marked
* Larynx	Epiglottis, Respirat Epith	Hyperplasia Inflammation	Mild Chronic, Minimal
* Liver	Hepatocyte	Hepatodiaphragmatic Nodule Necrosis	Marked
[Hepatodiaphragmatic Nodule TGLS = 3-15]			
[Necrosis TGLS = 3-15]			
* Lung	Alveolar Epith Alveolus	Hyperplasia Infiltration Cellular Pheochromocytoma Malignant	Mild Histiocyte, Mild Metastatic (Adrenal Medulla)
Note: Several small mets in R lung near tracheal bifurcation on slide 4			
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 1-14]			
Oral Mucosa		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 4-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 213	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 0.5 MG/M3	DISP: Terminal Sacrifice	HISTO: 39509

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 5-10]	Pars Distalis	Adenoma
* Testes	Interstit Cell	Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 214

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Chronic, Marked
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Foreign Body	
		Inflammation	Chronic, Minimal
* Liver		Clear Cell Focus	
		Leukemia Mononuclear	
	[Clear Cell Focus TGLS = 8-6]		
	[Leukemia Mononuclear TGLS = 9-6]		
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Leukemia Mononuclear	
	[Alveolar/Bronchiolar Carcinoma TGLS = 2,3-5+13]		
	[Leukemia Mononuclear TGLS = 2,3-5+13]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 4-15]		
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 214

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39510

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-10]

* Spleen

Fibrosis

Marked

Leukemia Mononuclear

[Fibrosis TGLS = 7-14]

[Leukemia Mononuclear TGLS = 6-14]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 5-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 215

TRT#: 3

SEX: Male

DAY ON TEST: 677

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney	Renal Tubule	Carcinoma	
		Nephropathy	Chronic, Minimal
	[Carcinoma TGLS = 5-7+13]		
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
		Pigmentation	Mild
* Nose	Goblet Cell, Respirat Epith	Foreign Body	
		Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
		Metaplasia	Squamous, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
		Necrosis	Marked
	[Leukemia Mononuclear TGLS = 2-14]		
	[Necrosis TGLS = 3-14]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 215

TRT#: 3
DOSE: 0.5 MG/M3

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 677
HISTO: 39511

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma
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PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Spleen	Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 216

TRT#: 3

SEX: Male

DAY ON TEST: 485

DOSE: 0.5 MG/M3

DISP: Natural Death

HISTO: 39512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Islets, Pancreatic	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronic, Mild
* Larynx		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
Tooth	Peridont Tiss	Inflammation	Suppurative, Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 217

TRT#: 3

DOSE: 0.5 MG/M3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 39513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
Eye	Lens	Cataract	Minimal
[Cataract TGLS = 1-14]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 6-7]			
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 7-6]			
* Lung	Interstitial	Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Fibrosis	Minimal
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Hyperplasia	Moderate
[Alveolar/Bronchiolar Adenoma TGLS = 3-5]		Infiltration Cellular	Histiocyte, Moderate
* Lymph Node, Bronchial		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 217

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39513

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-9]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 218

TRT#: 3

SEX: Male

DAY ON TEST: 652

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Hyperplasia Metaplasia	Minimal Squamous, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung	Alveolar Epith	Hyperplasia Leukemia Mononuclear	Minimal
[Leukemia Mononuclear TGLS = 4-6]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Fibrosis Leukemia Mononuclear	Marked
[Fibrosis TGLS = 3-13]			
[Leukemia Mononuclear TGLS = 2-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 218

TRT#: 3

SEX: Male

DAY ON TEST: 652

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39514

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 219

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
Eye		Atrophy	Minimal
[Atrophy TGLS = 3-13]			
* Islets, Pancreatic		Adenoma	
[Adenoma TGLS = 3-13]			
* Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 6-7]			
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 7-6]			
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
[Alveolar/Bronchiolar Carcinoma TGLS = 2-5]			
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-14]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 219

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39515

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-10]

* Skin

Keratoacanthoma

[Keratoacanthoma TGLS = 5-15]

* Testes

Interstit Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 220

TRT#: 3

SEX: Male

DAY ON TEST: 716

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 6-13+7]			
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-5]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Foreign Body	
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Spleen		Fibrosis	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 220

TRT#: 3

SEX: Male

DAY ON TEST: 716

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39516

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 5-14]	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-14]		
* Stomach, Forestomach	Ulcer	Moderate
* Testes	Inflammation	Suppurative, Moderate
	Necrosis	Marked
[Inflammation TGLS = 7-9]		
[Necrosis TGLS = 7-9]		

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 221

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-13]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-13]		
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 222

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymsus	* Thyroid Gland	* Trachea
* Urinary Bladder			

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx		Inflammation	Chronic, Minimal
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
		Mineralization	Mild
[Mineralization TGLS = 2-13]			
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			
* Skin		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 1-15]			
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
[Fibrosis TGLS = 5-14]			
[Leukemia Mononuclear TGLS = 4-14]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 222

TRT#: 3

DOSE: 0.5 MG/M3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 39518

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 223

TRT#: 3

SEX: Male

DAY ON TEST: 493

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Epididymis
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Marked
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Marked
* Kidney		Infarct	Marked
		Leukemia Mononuclear	
		Nephropathy	Chronic, Mild
[Infarct TGLS = 7-15]			
* Larynx		Inflammation	Chronic, Minimal
* Liver	Hepatocyte	Degeneration	Cystic, Marked
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Hemorrhage	Moderate
[Hemorrhage TGLS = 2-14]			
* Prostate		Inflammation	Suppurative, Moderate
* Spleen		Fibrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 223

TRT#: 3

SEX: Male

DAY ON TEST: 493

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39519

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

[Fibrosis TGLS = 4-13]

[Leukemia Mononuclear TGLS = 5-13]

* Testes

Interstit Cell

Hyperplasia

Marked

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Kidney Infarct

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 224

TRT#: 3

SEX: Male

DAY ON TEST: 714

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Brain	Medulla	Demyelination	Focal, Moderate
* Islets, Pancreatic		Carcinoma	
[Carcinoma TGLS = 5-13]			
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Galactoceles	Moderate
[Galactoceles TGLS = 1-14]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Angiectasis	Marked
[Angiectasis TGLS = 4-10]			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 224

TRT#: 3
DOSE: 0.5 MG/M3

SEX: Male
DISP: Moribund Sacrifice

DAY ON TEST: 714
HISTO: 39520

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-9]	Interstit Cell	Hyperplasia	Moderate
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PRIMARY CAUSE OF DEATH - Pituitary Gland Angiectasis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 225

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 3-14]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 226

TRT#: 3

SEX: Male

DAY ON TEST: 584

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39522

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 12-16]			
* Liver	Hepatocyte	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-6]		Regeneration	Marked
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
[Leukemia Mononuclear TGLS = 2,3,4,5-4+5+13]		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-9]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-9]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-3+4]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-17]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 8-18]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 226	TRT#: 3	SEX: Male	DAY ON TEST: 584
	DOSE: 0.5 MG/M3	DISP: Moribund Sacrifice	HISTO: 39522

ORGAN AND ACCOUNTABLE SITE STATUS

Respirat Epith	Hyperplasia	Mild
	Inflammation	Suppurative, Marked
Respirat Epith	Metaplasia	Squamous, Moderate
Note: squamous metaplasia in nasopharyngeal duct.		
* Spleen	Hemorrhage	Marked
	Leukemia Mononuclear	
[Hemorrhage TGLS = 7-15]		
[Leukemia Mononuclear TGLS = 6-14]		
* Testes	Adenoma	
[Adenoma TGLS = 9-9]		
Bilateral, Interstit Cell		

PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Spleen	Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 227

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Moderate
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Skin		Hyperkeratosis	Moderate
	[Hyperkeratosis TGLS = 1-13]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2,3-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 228

TRT#: 3

SEX: Male

DAY ON TEST: 608

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Brain		Glioma Malignant	
		Hydrocephalus	Marked
		Necrosis	Mild
[Glioma Malignant TGLS = 3-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver		Vacuolization Cytoplasmic	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 5-14]			
* Lymph Node, Bronchial		Pigmentation	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Respirat Epith	Degeneration	Hyaline, Minimal
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-10]			
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 2-13+15]			
* Stomach, Forestomach		Ulcer	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 228

TRT#: 3

SEX: Male

DAY ON TEST: 608

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39524

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 6-16]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Brain Glioma Malignant;Preputial Gland Carcinoma;Stomach;Forestomach Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 229

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx		Inflammation	Chronic, Minimal
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
		Mineralization	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 230

TRT#: 3

DOSE: 0.5 MG/M3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 39526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Inflammation	Chronic, Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 7-6]		
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung	Interstitial	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-6]		
Lymph Node	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 6-14]	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-3]		
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 230

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39526

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-13]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 231

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Islets, Pancreatic [Carcinoma TGLS = 2-3]		Carcinoma	
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Inflammation	Chronic, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
[Alveolar/Bronchiolar Adenoma TGLS = 3,4-5+13]			
[Infiltration Cellular TGLS = 8-14]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-15]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-10]			
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 2-6]			
* Testes	Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 231

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39527

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 232

TRT#: 3

SEX: Male

DAY ON TEST: 548

DOSE: 0.5 MG/M3

DISP: Natural Death

HISTO: 39528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver	Hepatocyte	Degeneration	Cystic, Minimal
* Lung		Hemorrhage	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Hemorrhage	Marked
[Adenoma TGLS = 1-10]			
[Hemorrhage TGLS = 1-10]			
* Testes	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Minimal
[Atrophy TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Hemorrhage

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 233

TRT#: 3

SEX: Male

DAY ON TEST: 680

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Preputial Gland	* Prostate	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Urinary Bladder			

OBSERVATIONS

* Brain		Lymphoma Malignant	
* Esophagus		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Lymphoma Malignant	
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver		Lymphoma Malignant	
* Lung	Interstitium	Fibrosis	Moderate
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Suppurative, Marked
		Lymphoma Malignant	
[Infiltration Cellular TGLS = 6-4+5]			
[Lymphoma Malignant TGLS = 6-4+5]			
* Lymph Node, Bronchial		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mediastinal		Lymphoma Malignant	
* Nose	Globet Cell, Respirat Epith	Hyperplasia	Moderate
	Respirat Epith	Metaplasia	Squamous, Minimal
* Parathyroid Gland		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 233	TRT#: 3	SEX: Male	DAY ON TEST: 680
	DOSE: 0.5 MG/M3	DISP: Moribund Sacrifice	HISTO: 39529

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant TGLS = 6-4+5]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 7-10]			
* Salivary Glands		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 7-10]			
Skeletal Muscle		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4,5-13+14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thymus		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-9]			
* Thyroid Gland		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4,5-13+14]			
* Trachea		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4,5-13+14]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 234

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic Active, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose		Foreign Body	
		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Prostate		Hyperplasia	Mild
* Spleen		Fibrosis	Mild
* Testes	Germinal Epith	Atrophy	Marked
* Urinary Bladder		Calculus Micro Observation Only	
[Calculus Micro Observation Only TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 235

TRT#: 3

SEX: Male

DAY ON TEST: 353

DOSE: 0.5 MG/M3

DISP: Natural Death

HISTO: 39531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Bone	Femur	Osteosarcoma	
Note: Cant be positive of primary site but femur is most likely from description.			
[Osteosarcoma TGLS = 2-13,14]			
* Larynx		Inflammation	Suppurative, Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Osteosarcoma	Metastatic (Bone)
[Osteosarcoma TGLS = 3,4,5-4+5+15]			

PRIMARY CAUSE OF DEATH

- Bone Femur Osteosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 236

TRT#: 3

DOSE: 0.5 MG/M3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 39532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign Carcinoma	
* Islets, Pancreatic [Carcinoma TGLS = 7-15]			
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration Inflammation	Minimal Chronic, Minimal
* Liver [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Lung [Leukemia Mononuclear TGLS = 3-6]	Alveolus	Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
Lymph Node [Leukemia Mononuclear TGLS = 7-15]	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Bronchial [Leukemia Mononuclear TGLS = 1-13]		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 9-16]		Leukemia Mononuclear	
* Pituitary Gland [Adenoma TGLS = 2-10]	Pars Distalis	Adenoma Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 236

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39532

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-10]

* Prostate

Inflammation

Suppurative, Mild

* Spleen

Hemorrhage

Marked

Leukemia Mononuclear

[Hemorrhage TGLS = 5,6-14+15]

[Leukemia Mononuclear TGLS = 4-15]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 8-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 237

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 4-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Hyperplasia	Moderate
	[Hyperplasia TGLS = 1-14]		
* Spleen		Fibrosis	Marked
		Leukemia Mononuclear	
	[Fibrosis TGLS = 3-13]		
	[Leukemia Mononuclear TGLS = 3-13]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 238

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Inflammation	Chronic, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 7-10]		
* Spleen		Fibrosis	Moderate
		Hemorrhage	Moderate
		Leukemia Mononuclear	
	[Fibrosis TGLS = 5-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 238

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39534

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 4-13]

[Leukemia Mononuclear TGLS = 3-13]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 239

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Chronic, Marked
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-10]		
* Spleen		Fibrosis	Mild
	[Fibrosis TGLS = 2-6]		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Mild
	[Adenoma TGLS = 1-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 240

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39536

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
* Liver		Leukemia Mononuclear	
* Lung	Alveolus	Alveolar/Bronchiolar Adenoma	Histiocyte, Minimal
		Infiltration Cellular	
		Leukemia Mononuclear	
Note: Diff dx grade 4 alveolar epithelial hyperplasia.			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-15]			
* Nose	Goblet Cell, Respirat Epith	Foreign Body	
		Hyperplasia	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hemorrhage	Moderate
		Leukemia Mononuclear	
[Hemorrhage TGLS = 3-14]			
[Leukemia Mononuclear TGLS = 1,2-13+14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 240

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39536

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 241

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolus	Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2,3-13+14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4,5-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 242

TRT#: 3

SEX: Male

DAY ON TEST: 571

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Liver	Hepatocyte	Degeneration	Cystic, Minimal
	Bile Duct	Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 3-13]	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
Oral Mucosa	Pharyngeal	Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLS = 1-14]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-9]		

PRIMARY CAUSE OF DEATH - Oral Mucosa Pharyngeal Squamous Cell Papilloma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 243

TRT#: 3

DOSE: 0.5 MG/M3

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 694

HISTO: 39539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 6-7]			
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Liver		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-9]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-9]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-3]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
[Fibrosis TGLS = 4-13]			
[Leukemia Mononuclear TGLS = 3-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 243

TRT#: 3

SEX: Male

DAY ON TEST: 694

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39539

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Papilloma

[Papilloma TGLS = 4-13]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 244

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 245

TRT#: 3

SEX: Male

DAY ON TEST: 311

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Thymus
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OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Hyperplasia Metaplasia	Mild Squamous, Mild
* Lung		Inflammation	Suppurative, Moderate
Mesentery	Fat	Hemorrhage	Mild
[Hemorrhage TGLS = tgl 2-13]			
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
* Preputial Gland		Carcinoma	

Note: Suppurative inflammation in the lung may reflect neutrophilic leucocytosis secondary to necrosis in preputial gland carcinoma.

[Carcinoma TGLS = 1-14]

PRIMARY CAUSE OF DEATH

- Preputial Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 246

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland		* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-16]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-10]			
* Skin		Basal Cell Adenoma	Multiple
[Basal Cell Adenoma TGLS = 2,4-13+15]		Keratoacanthoma	
[Keratoacanthoma TGLS = 3-14]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 247

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39543

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Carcinoma	Metastatic (Mammary Gland)
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-6]			
* Lung		Alveolar/Bronchiolar Adenoma	
		Carcinoma	Metastatic (Mammary Gland)
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
Note: Slide 4, right lung, alveolar/bronchiolar adenoma; slide 5, left lung, metastatic mammary ca. Note stromal fibrosis in slide 5 lesion, similar to primary.			
		[Carcinoma TGLS = 4-5]	
		[Leukemia Mononuclear TGLS = 4-5]	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Mammary Gland		Carcinoma	Multiple
		Fibroadenoma	
		[Carcinoma TGLS = 2,8-14+17+18]	
		[Fibroadenoma TGLS = 1-13+16]	
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 247

TRT#: 3

DOSE: 0.5 MG/M3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 39543

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Hyperplasia TGLS = 3-10]	Pars Distalis	Hyperplasia	Moderate
Skeletal Muscle [Carcinoma TGLS = 8,9-18+19]		Carcinoma	Metastatic (Mammary Gland)
* Spleen [Leukemia Mononuclear TGLS = 6-15]		Fibrosis Leukemia Mononuclear	Mild
* Testes [Adenoma TGLS = 5-9]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 248

TRT#: 3

SEX: Male

DAY ON TEST: 708

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 4-14]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	Note: See NOTE under skin; sq mass on slides 9 and 13 appears to originate in fibroadenoma of mammm gland.		
	[Fibroadenoma TGLS = 3-13]		
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Suppurative, Minimal
* Skin		Basal Cell Adenoma	
	Subcut Tiss	Sarcoma	
	Note: This is a sarcoma with isolated ducts within it, low mitotic rate but invades skel muscle. This tumor appears to arise in mammary gland fibroadenoma.		
	[Basal Cell Adenoma TGLS = 1,2-15]		
	[Sarcoma TGLS = 3-13]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 5,6-9]		
* Thyroid Gland		Sarcoma	Metastatic (Skin)

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 249

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronic, Mild
* Larynx		Inflammation	Chronic, Minimal
* Liver		Vacuolization Cytoplasmic	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Prostate		Inflammation	Suppurative, Mild
* Stomach, Forestomach		Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 250

TRT#: 3

DOSE: 0.5 MG/M3

SEX: Male

DISP: Natural Death

DAY ON TEST: 709

HISTO: 39546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
* Brain		Hemorrhage	Mild
Eye	Lens	Cataract	Mild
[Cataract TGLS = 2-14]			
* Kidney		Nephropathy	Chronic, Moderate
* Larynx		Foreign Body	
		Inflammation	Suppurative, Moderate
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver		Clear Cell Focus	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mediastinal		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			
* Skin		Cyst	Marked
		Hyperkeratosis	Mild
[Cyst TGLS = 4-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 250

TRT#: 3

SEX: Male

DAY ON TEST: 709

DOSE: 0.5 MG/M3

DISP: Natural Death

HISTO: 39546

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperkeratosis TGLS = 4-13]

* Trachea

Foreign Body

[Foreign Body TGLS = 4-13]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Brain Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 401

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39397

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung	Interstitium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-10]			
* Skin		Cyst	Moderate
		Hyperkeratosis	Moderate
[Cyst TGLS = 1,2-14]			
[Hyperkeratosis TGLS = 3-13]			
* Testes	Interstit Cell	Adenoma	
	Artery	Inflammation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 401

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39397

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 402

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39398

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 3-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 403

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39399

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic, Minimal
* Lung	Alveolar Epith Bronchiole Alveolus	Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Mild Mild Histiocyte, Mild Chronic Active, Mild
Mesentery [Necrosis TGLS = 1-13]	Fat	Necrosis	Mild
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland [Adenoma TGLS = 3-10]	Pars Distalis	Adenoma	
* Spleen [Fibrosis TGLS = 2-6]		Fibrosis	Moderate
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 404

TRT#: 5

SEX: Male

DAY ON TEST: 519

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39400

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
Penis	Peripheral Nerve	Peritoneum	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	Zymbal's Gland

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex [Vacuolization Cytoplasmic TGLS = 4-7]		Vacuolization Cytoplasmic	Marked
* Adrenal Medulla		Hyperplasia	Moderate
* Epididymis		Spermatocele	Moderate
* Kidney		Nephropathy	Chronic, Marked
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver [Degeneration TGLS = 3-6]	Hepatocyte	Degeneration	Cystic, Marked
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland [Adenoma TGLS = 2-10]	Pars Distalis	Adenoma	
* Testes	Germinal Epith	Atrophy	Mild
	Interstit Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Kidney Nephropathy;Liver Hepatocyte Degeneration

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 405

TRT#: 5

SEX: Male

DAY ON TEST: 712

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Mesothelioma Malignant	
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Liver		Leukemia Mononuclear	
	Hepatocyte	Necrosis	Moderate
		Vacuolization Cytoplasmic	Moderate
	[Leukemia Mononuclear TGLS = 1-6]		
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
		Pigmentation	Mild
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 5-13]		
Peritoneum		Mesothelioma Malignant	

Note: malignant mesothelioma affects vaginal tunic, peritoneum lining pelvic and abdominal viscera.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 405

TRT#: 5

SEX: Male

DAY ON TEST: 712

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39401

ORGAN AND ACCOUNTABLE SITE STATUS

[Mesothelioma Malignant TGLS = 5-13+6+7+8+10]

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 3,6-1+10]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-6]

* Testes

Bilateral, Interstit Cell

Adenoma

Mesothelioma Malignant

[Adenoma TGLS = 2-9]

[Mesothelioma Malignant TGLS = 4-6]

PRIMARY CAUSE OF DEATH

- Testes Mesothelioma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Peritoneum Mesothelioma Malignant; Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 406

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39402

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Marked
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-13+6+7+8+10]			
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
[Leukemia Mononuclear TGLS = 5-6]		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Globet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 4-13]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 406	TRT#: 5	SEX: Male	DAY ON TEST: 729
	DOSE: 1.0 MG/M3	DISP: Terminal Sacrifice	HISTO: 39402

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 3-9]	Bilateral, Interstit Cell	Adenoma
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PRIMARY CAUSE OF DEATH	-
CONTRIBUTORY CAUSE OF DEATH	- Bone Marrow Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 407

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39403

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
* Kidney		Nephropathy	Chronic, Mild
* Liver	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Mild
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 5-6]			
[Leukemia Mononuclear TGLS = 4-6]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-13]			
* Testes	Interstitial Cell	Adenoma	
	Interstitial Cell	Hyperplasia	Moderate
[Adenoma TGLS = 3-9]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 408

TRT#: 5

SEX: Male

DAY ON TEST: 661

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39404

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Marked
* Larynx	Epiglottis, Respirat Epith	Hyperplasia Inflammation	Moderate Chronic, Moderate
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver		Hepatodiaphragmatic Nodule Vacuolization Cytoplasmic	Marked
	[Hepatodiaphragmatic Nodule TGLS = 2-14]		
* Lung	Alveolar Epith Bronchiole Alveolus	Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Mild Mild Histiocyte, Moderate Chronic Active, Minimal
	Mesentery	Necrosis	Moderate
	[Necrosis TGLS = 3-13]		
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-10]		
* Stomach, Forestomach	Epithelium	Hyperplasia Ulcer	Mild Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 408	TRT#: 5	SEX: Male	DAY ON TEST: 661
	DOSE: 1.0 MG/M3	DISP: Moribund Sacrifice	HISTO: 39404

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 5-15]			
* Testes	Artery	Inflammation	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		
CONTRIBUTORY CAUSE OF DEATH	- Stomach;Forestomach Ulcer		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 409

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Marked
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic, Minimal
* Lung	Alveolar Epith Bronchiole Alveolus	Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Mild Mild Histiocyte, Mild Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-13+14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3,4-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 410

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
* Lymph Node, Bronchial		Pigmentation	Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Prostate		Inflammation	Suppurative, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Moderate
	[Adenoma TGLS = 2-9]		
	[Atrophy TGLS = 3-9]		
* Thyroid Gland	Follicular Cel	Carcinoma	
	[Carcinoma TGLS = 1-3]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 411

TRT#: 5

SEX: Male

DAY ON TEST: 717

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Leukemia Mononuclear Pheochromocytoma Benign	
[Leukemia Mononuclear TGLS = 6-7]			
[Pheochromocytoma Benign TGLS = 6-7]			
* Bone Marrow		Leukemia Mononuclear	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
	Epiglottis, Respirat Epith	Inflammation	Chronic, Minimal
		Metaplasia	Squamous, Mild
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 5-6]			
* Lung	Interstitial	Fibrosis	Moderate
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 8-4+5+13]			
[Leukemia Mononuclear TGLS = 8-4+5+13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 411

TRT#: 5

SEX: Male

DAY ON TEST: 717

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39407

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Bronchial

Leukemia Mononuclear

* Lymph Node, Mediastinal

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 6-7]

* Pituitary Gland

Pars Distalis

Adenoma

Leukemia Mononuclear

[Adenoma TGLS = 7-10]

[Leukemia Mononuclear TGLS = 7-10]

* Spleen

Fibrosis

Moderate

Leukemia Mononuclear

[Fibrosis TGLS = 4-14]

[Leukemia Mononuclear TGLS = 3-14]

* Thyroid Gland

C Cell

Adenoma

[Adenoma TGLS = 2-3]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 412

TRT#: 5

SEX: Male

DAY ON TEST: 633

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Epididymis
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Complex	
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-7]			
* Brain		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-7]			
* Intestine Large, Rectum		Thrombosis	Moderate
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 412	TRT#: 5 DOSE: 1.0 MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 633 HISTO: 39408
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-13]			
* Testes	Interstit Cell Germinal Epith	Adenoma Atrophy	Marked
[Adenoma TGLS = 4-9]			
[Atrophy TGLS = 5-9]			

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Brain Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 413

TRT#: 5

DOSE: 1.0 MG/M3

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 528

HISTO: 39409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Moderate
	Atrium	Thrombosis	Marked
	[Cardiomyopathy TGLS = 7-14+15]		
	[Thrombosis TGLS = 3-14]		
* Kidney		Nephropathy	Chronic, Moderate
	Renal Tubule	Pigmentation	Marked
	Note: tgl 4 is normal renal capsular fat.		
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Marked
* Liver	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
	Hepatocyte	Degeneration	Cystic, Marked
		Leukemia Mononuclear	
	[Degeneration TGLS = 5-6]		
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 413	TRT#: 5 DOSE: 1.0 MG/M3	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 528 HISTO: 39409
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Suppurative, Marked
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
	[Fibrosis TGLS = 2-13]		
	[Leukemia Mononuclear TGLS = 1-13]		
* Stomach, Forestomach		Ulcer	Mild
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Heart Cardiomyopathy;Heart Atrium Thrombosis;Liver Hepatocyte Degeneration;Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 414

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39410

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx		Hyperkeratosis	Mild
		Inflammation	Chronic, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Lung		Alveolar/Bronchiolar Adenoma	
	Interstitial	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Testes	Bilateral, Interstit Cell	Adenoma	

[Adenoma TGLS = 1-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 415

TRT#: 5

SEX: Male

DAY ON TEST: 392

DOSE: 1.0 MG/M3

DISP: Natural Death

HISTO: 39411

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	* Spleen

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Skin		Hyperkeratosis	Moderate

[Hyperkeratosis TGLS = 1-13]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 416

TRT#: 5

SEX: Male

DAY ON TEST: 633

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Complex	
[Pheochromocytoma Complex TGLS = 9-7]			
* Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 5-7]			
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
		Inflammation	Chronic, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Moderate
* Liver		Vacuolization Cytoplasmic	Marked
[Vacuolization Cytoplasmic TGLS = 6-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
	Alveolus	Pigmentation	Mild
* Nose		Inflammation	Suppurative, Minimal
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 4-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:40
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 416	TRT#: 5	SEX: Male	DAY ON TEST: 633
	DOSE: 1.0 MG/M3	DISP: Moribund Sacrifice	HISTO: 39412

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach [Ulcer TGLS = 7-15]		Ulcer	Marked
* Stomach, Glandular [Necrosis TGLS = 8-14]		Necrosis	Moderate
* Testes [Adenoma TGLS = 3-9]	Interstit Cell Germinal Epith	Adenoma Atrophy	Marked
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH	- Kidney Nephropathy
CONTRIBUTORY CAUSE OF DEATH	- Liver Vacuolization Cytoplasmic; Pituitary Gland Pars Distalis Adenoma; Stomach; Forestomach Ulcer; Stomach; Glandular Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:40

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 417

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronic, Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Ectasia	Moderate
		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-10]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 418

TRT#: 5

DOSE: 1.0 MG/M3

SEX: Male

DISP: Natural Death

DAY ON TEST: 671

HISTO: 39414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Brain	* Epididymis
* Esophagus	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Liver		Leukemia Mononuclear	
	Hepatocyte	Regeneration	Marked
	[Leukemia Mononuclear TGLS = 3-6+13]		
	[Regeneration TGLS = 2-13]		
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-13]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-17]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 418	TRT#: 5 DOSE: 1.0 MG/M3	SEX: Male DISP: Natural Death	DAY ON TEST: 671 HISTO: 39414
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ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 6-16]	Fat	Necrosis	Mild
* Spleen [Hemorrhage TGLS = 5-15] [Leukemia Mononuclear TGLS = 4-14]		Hemorrhage Leukemia Mononuclear	Marked
* Stomach, Glandular Note: glandular stomach changes are likely due in part to autolysis. [Necrosis TGLS = 8-17]		Necrosis	Minimal
* Testes [Adenoma TGLS = 7-9]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Spleen Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 419

TRT#: 5

SEX: Male

DAY ON TEST: 653

DOSE: 1.0 MG/M3

DISP: Natural Death

HISTO: 39415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 3-7]			
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Galactocele	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

Animal Note: Tissues are autolyzed, debatable if some are interpretable. One could identify lung tumor, but it is difficult to evaluate alveoli and bronchioles.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 420

TRT#: 5

SEX: Male

DAY ON TEST: 584

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39416

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolus	Leukemia Mononuclear	
		Pigmentation	Minimal
Note: some hyperplastic alv epith cells contain large clear vacuoles.			
	[Hyperplasia TGLS = 2-13]		
Lymph Node		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-17]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-15]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-15]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLS = 3-16]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Preputial Gland		Inflammation	Chronic, Marked
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-14]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 420	TRT#: 5	SEX: Male	DAY ON TEST: 584
	DOSE: 1.0 MG/M3	DISP: Moribund Sacrifice	HISTO: 39416

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Glandular [Erosion TGLS = 8-19]		Erosion	Mild
* Testes [Adenoma TGLS = 4-9]	Bilateral, Interstit Cell	Adenoma	
Tongue [Hyperplasia TGLS = 7-18]	Epithelium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 421

TRT#: 5

SEX: Male

DAY ON TEST: 722

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Islets, Pancreatic [Carcinoma TGLS = 6-8]		Carcinoma	
* Kidney [Infiltration Cellular TGLS = 5-7]		Infiltration Cellular Nephropathy	Lipocyte, Marked Chronic, Marked
* Larynx	Epiglottis, Respirat Epith	Foreign Body Hyperplasia Inflammation	Mild Suppurative, Mild
* Liver [Leukemia Mononuclear TGLS = 4-6]	Bile Duct	Hyperplasia Leukemia Mononuclear	Mild
* Lung	Interstitial Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation Leukemia Mononuclear	Minimal Mild Mild Histiocyte, Moderate Chronic Active, Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Pituitary Gland [Adenoma TGLS = 2-10]	Pars Distalis	Adenoma	
* Prostate		Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 421

TRT#: 5

SEX: Male

DAY ON TEST: 722

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39417

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibroma TGLS = 1-13+14]	Subcut Tiss	Fibroma	
* Spleen [Leukemia Mononuclear TGLS = 1-13+14]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 3-9]	Interstit Cell Germinal Epith	Adenoma Atrophy	Marked

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 422

TRT#: 5

SEX: Male

DAY ON TEST: 712

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia	Minimal Minimal
* Liver		Vacuolization Cytoplasmic	Mild
* Lung	Interstitialium Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular	Minimal Mild Mild Histiocyte, Mild
[Hyperplasia TGLS = 3-5]			
[Hyperplasia TGLS = 3-5]			
* Lymph Node, Mediastinal Mesentery		Pigmentation Hemorrhage	Mild Mild
[Hemorrhage TGLS = 5-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-10]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			
* Thyroid Gland	C Cell	Adenoma	
[Adenoma TGLS = 1-3]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 423

TRT#: 5

DOSE: 1.0 MG/M3

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 694

HISTO: 39419

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver		Clear Cell Focus	
		Vacuolization Cytoplasmic	Mild
	[Clear Cell Focus TGLS = 5-6]		
	[Vacuolization Cytoplasmic TGLS = 6-6]		
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 2-13]		
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Galactoceles	Marked
	[Galactoceles TGLS = 1-14]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-10]		
* Skin		Schwannoma Benign	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 423	TRT#: 5	SEX: Male	DAY ON TEST: 694
	DOSE: 1.0 MG/M3	DISP: Moribund Sacrifice	HISTO: 39419

ORGAN AND ACCOUNTABLE SITE STATUS

Note: This lesion is on eyelid, resembles early neural crest neoplasm of pinna.

[Schwannoma Benign TGLS = 3-15]

* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 7-6]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 8-9]			

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 424

TRT#: 5

SEX: Male

DAY ON TEST: 725

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	Coagulating Gland	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Liver		Leukemia Mononuclear	
* Lung	Alveolus	Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Prostate		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3,4-6]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 5-9]			
* Thyroid Gland	C Cell	Hyperplasia	Marked
Tooth	Peridont Tiss	Inflammation	Suppurative, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 424

TRT#: 5

SEX: Male

DAY ON TEST: 725

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39420

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 425

TRT#: 5

SEX: Male

DAY ON TEST: 684

DOSE: 1.0 MG/M3

DISP: Natural Death

HISTO: 39421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Brain		Hemorrhage	Moderate
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	Portal	Inflammation	Chronic Active, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-10]		
* Prostate		Inflammation	Suppurative, Moderate
* Skin		Hyperkeratosis	Mild
	Note: Looks like normal nipple from male rat; possibly focal hyperkeratosis, debris in underlying mammary tissue.		
	[Hyperkeratosis TGLS = 1-13]		
* Spleen		Fibrosis	Mild
	[Fibrosis TGLS = 3-14]		
* Testes	Germinal Epith	Atrophy	Moderate
	[Atrophy TGLS = 2-9]		

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 425

TRT#: 5

SEX: Male

DAY ON TEST: 684

DOSE: 1.0 MG/M3

DISP: Natural Death

HISTO: 39421

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Brain Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 426

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39422

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Mild
Note: 5 step sections of lung slide 13; no lesions found			
* Lymph Node, Mediastinal		Pigmentation	Mild
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Suppurative, Mild
* Skin		Cyst	Multiple, Marked
	[Cyst TGLS = 2,3-14+15]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 426

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39422

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-9]

[Atrophy TGLS = 5-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 427

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
	[Vacuolization Cytoplasmic TGLS = 2-6]	Vacuolization Cytoplasmic	Minimal
* Lung	Interstitial	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Prostate		Inflammation	Suppurative, Mild
* Skin	Subcut Tiss	Lipoma	
	[Lipoma TGLS = 3-13]		
* Testes	Interstit Cell	Adenoma	
	Note: Only one testis has tumor at micro.		
	[Adenoma TGLS = 1-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 428

TRT#: 5

SEX: Male

DAY ON TEST: 703

DOSE: 1.0 MG/M3

DISP: Natural Death

HISTO: 39424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Skin	* Testes
AUTO PRECLUDES DIAG.			
* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Larynx [Foreign Body TGLS = 1-10]		Foreign Body
* Pituitary Gland [Adenoma TGLS = 1-10]	Pars Distalis	Adenoma

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 429

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 3-13]		
* Lung		Hemorrhage	Mild
	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-10]		
* Skin	Subcut Tiss	Fibrosis	Minimal
	[Fibrosis TGLS = 4-14]		
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Moderate
	[Adenoma TGLS = 1-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 430

TRT#: 5

DOSE: 1.0 MG/M3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 39426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Mesothelioma Malignant	
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 2,3,5-14+16+18+19]		
* Saliv Glands			
	Note: mesothelioma adjacent to salivary gland is interpreted as a floater from the adjacent sections of testis and epididymis.		
* Skin		Basal Cell Carcinoma	
	[Basal Cell Carcinoma TGLS = 1-13+15]		
* Spleen		Fibrosis	Mild
	[Fibrosis TGLS = 6-6]		
* Testes		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 4-17+9]		
* Urinary Bladder		Hemorrhage	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 431

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
	Epiglottis, Respirat Epith	Inflammation	Chronic, Minimal
		Metaplasia	Squamous, Mild
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 3-14]		
* Lung	Interstitial	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
	[Fibrosis TGLS = 2-13]		
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Galactocele	Mild
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 4-15]		
* Nose		Foreign Body	
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 431

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39427

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-9]

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 432

TRT#: 5

SEX: Male

DAY ON TEST: 708

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney [Nephropathy TGLS = 5-7]		Nephropathy	Chronic, Marked
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver [Leukemia Mononuclear TGLS = 5-7] [Vacuolization Cytoplasmic TGLS = 4-6]		Leukemia Mononuclear Vacuolization Cytoplasmic	Moderate
* Lung	Alveolar Epith Bronchiole Alveolus	Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Minimal Minimal Histiocyte, Mild Chronic Active, Minimal
* Lymph Node, Mediastinal Mesentery [Necrosis TGLS = 2-14]	Fat	Pigmentation Necrosis	Minimal Mild
* Pituitary Gland [Adenoma TGLS = 1-10]	Pars Distalis	Adenoma	
* Spleen [Fibrosis TGLS = 3-13] [Leukemia Mononuclear TGLS = 3-13]		Fibrosis Leukemia Mononuclear	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 432	TRT#: 5	SEX: Male	DAY ON TEST: 708
	DOSE: 1.0 MG/M3	DISP: Moribund Sacrifice	HISTO: 39428

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Ulcer	Marked
[Ulcer TGLS = 6-10]			
* Testes	Germinal Epith	Atrophy	Marked

PRIMARY CAUSE OF DEATH	- Stomach, Forestomach Ulcer
CONTRIBUTORY CAUSE OF DEATH	- Kidney Nephropathy;Liver Leukemia Mononuclear;Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 433

TRT#: 5

DOSE: 1.0 MG/M3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 39429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Heart	Pericardium	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	Pericardium	Fibrosis	Minimal
* Kidney		Nephropathy	Chronic, Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	Alveolar Epith	Hyperplasia	Marked
	[Alveolar/Bronchiolar Carcinoma TGLS = 2,3,6,7-16+17+18+5]		
* Lymph Node, Bronchial		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Lymph Node, Mediastinal		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
* Pituitary Gland	Pars Distalis	Adenoma	
Pleura		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[Alveolar/Bronchiolar Carcinoma TGLS = 4-4+13+14]		
Skeletal Muscle		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	[Alveolar/Bronchiolar Carcinoma TGLS = 1-15]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 5-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 434

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Islets, Pancreatic [Carcinoma TGLS = 3-13]		Carcinoma	
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
* Pituitary Gland [Adenoma TGLS = 2-10]	Pars Distalis	Adenoma	
* Testes [Adenoma TGLS = 4-9] [Atrophy TGLS = 4-9]	Interstitial Cell Germinal Epith	Adenoma Atrophy	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 435

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39431

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
		Hemorrhage	Mild
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Minimal
[Hemorrhage TGLS = 3-4]			
[Hyperplasia TGLS = 3-4]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13+16]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-10]			
* Skin	Subcut Tiss	Lipoma	
[Lipoma TGLS = 2-15]			
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 6-14]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 5-9]			
* Thymus		Thymoma Benign	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 435

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39431

ORGAN AND ACCOUNTABLE SITE STATUS

[Thymoma Benign TGLS = 5-9]

* Thyroid Gland

Follicular Cel

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 436

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39432

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mediastinal		Pigmentation	Mild
* Skin		Hyperplasia	Mild
		Neural Crest Tumor, Benign	

Note: this tumor has micro appearance of neural crest tumor of pinna of ear. Closest tdms dx is melanoma (?)

[Hyperplasia TGLS = 1-13]

[Neural Crest Tumor, Benign TGLS = 1-13]

* Testes	Bilateral, Interstit Cell	Adenoma	
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[Adenoma TGLS = 2-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 437

TRT#: 5

SEX: Male

DAY ON TEST: 655

DOSE: 1.0 MG/M3

DISP: Natural Death

HISTO: 39433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	Eye
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Brain		Hemorrhage	Mild
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Moderate
	Epiglottis, Respirat Epith	Inflammation	Chronic, Mild
		Metaplasia	Squamous, Moderate
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 5-18]			
* Lung	Alveolar Epith	Hyperplasia	Mild
* Lymph Node, Mediastinal		Pigmentation	Mild
* Mammary Gland		Galactocele	Mild
[Galactocele TGLS = 7-16]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-10]			
* Skin	Subcut Tiss	Fibrosarcoma	
		Keratoacanthoma	
	Subcut Tiss	Lipoma	
[Fibrosarcoma TGLS = 3-15]			
[Keratoacanthoma TGLS = 2-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 437

TRT#: 5

SEX: Male

DAY ON TEST: 655

DOSE: 1.0 MG/M3

DISP: Natural Death

HISTO: 39433

ORGAN AND ACCOUNTABLE SITE STATUS

[Lipoma TGLS = 1-13]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 438

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39434

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Liver		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-4+5]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
		Pigmentation	Mild
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 5-14]		
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-10]		
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 438

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39434

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-13]

* Testes

Germinal Epith

Atrophy

Moderate

[Atrophy TGLS = 4-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 439

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Lung	Interstitium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
Pleura		Inflammation	Minimal
Note: this is fibrosis, not inflammation, fibrosis not available on tdms.			
[Inflammation TGLS = 3-13]			
* Prostate		Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 2-9]			
[Atrophy TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 440

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-13]			
* Heart	Atrium	Thrombosis	Moderate
* Kidney		Infarct	Marked
		Nephropathy	Chronic, Minimal
[Infarct TGLS = 5,6-7]			
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-6]			
* Lung	Interstitial	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
[Hyperplasia TGLS = 8-5]			
[Infiltration Cellular TGLS = 8-5]			
Lymph Node	Iliac	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-15]			
* Lymph Node, Bronchial		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 440

TRT#: 5

SEX: Male

DAY ON TEST: 728

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39436

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 10-8]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-8]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-8]			
* Spleen		Leukemia Mononuclear Necrosis	Marked
[Leukemia Mononuclear TGLS = 2-13]			
[Necrosis TGLS = 3-13]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
[Hyperplasia TGLS = 12-14]			
* Testes	Interstit Cell Germinal Epith	Adenoma Atrophy	Marked
[Adenoma TGLS = 4-9]			
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 441

TRT#: 5

SEX: Male

DAY ON TEST: 698

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Larynx	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Liver	Hepatocyte	Leukemia Mononuclear Regeneration	Moderate
	[Leukemia Mononuclear TGLS = 7-6+15]		
	[Regeneration TGLS = 6-15]		
* Lung	Interstitial Bronchiole Alveolus	Fibrosis Hyperplasia Infiltration Cellular Leukemia Mononuclear	Minimal Minimal Histiocyte, Moderate
* Lymph Node, Bronchial			
	[Leukemia Mononuclear TGLS = 1-16]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-16]		
* Nose	Goblet Cell, Respirat Epith Respirat Epith	Hyperplasia Hyperplasia Inflammation	Mild Minimal Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-10]		
* Spleen		Fibrosis Leukemia Mononuclear	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 441

TRT#: 5

SEX: Male

DAY ON TEST: 698

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39437

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 8-14]

[Leukemia Mononuclear TGLS = 3-13+14]

* Testes

Bilateral, Interstit Cell

Adenoma

Germinal Epith

Atrophy

Marked

[Adenoma TGLS = 5-9]

[Atrophy TGLS = 4-9]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 442

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Epididymis		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 1-16]			
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
[Alveolar/Bronchiolar Adenoma TGLS = 2-5]			
* Lymph Node, Mediastinal		Pigmentation	Mild
Penis		Hyperplasia	Squamous, Marked
Note: focal severe hyperplasia of epithelium lining prepuce.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-13+15]			
* Spleen		Accessory Spleen	
		Leukemia Mononuclear	
[Accessory Spleen TGLS = 1-13+15]			
[Leukemia Mononuclear TGLS = 1-13+15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 442

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39438

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

Mesothelioma Malignant

[Adenoma TGLS = 4-17]

[Mesothelioma Malignant TGLS = 3-14+16+17]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 443

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Marked
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 1-13]			
* Seminal Vesicle		Hyperplasia	Mild
[Hyperplasia TGLS = 3-10]			
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 444

TRT#: 5

SEX: Male

DAY ON TEST: 551

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Liver		Vacuolization Cytoplasmic	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
* Parathyroid Gland		Carcinoma	Metastatic (Thyroid Gland)
Penis		Necrosis	Marked
[Necrosis TGLS = 5-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			
* Prostate		Inflammation	Suppurative, Marked
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 2-3]			
Urethra		Inflammation	Suppurative, Marked
[Inflammation TGLS = 6-15]			
* Urinary Bladder		Calculus Micro Observation Only	
[Calculus Micro Observation Only TGLS = 4-14]			

PRIMARY CAUSE OF DEATH

- Urinary Bladder Calculus Micro Observation Only

CONTRIBUTORY CAUSE OF DEATH

- Penis Necrosis; Pituitary Gland Pars Distalis Adenoma; Urethra Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 445

TRT#: 5

SEX: Male

DAY ON TEST: 680

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

Eye [Cataract TGLS = 4-15]	Lens	Cataract	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
* Lung	Interstitium	Edema	Mild
	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
		Inflammation	Acute, Moderate
* Lymph Node, Mandibular [Inflammation TGLS = 3-9]			
* Mammary Gland [Galactoceles TGLS = 1-16]		Galactoceles	Moderate
Mesentery [Necrosis TGLS = 2-14]	Fat	Necrosis	Moderate
* Pituitary Gland [Adenoma TGLS = 5-10]	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 445	TRT#: 5	SEX: Male	DAY ON TEST: 680
	DOSE: 1.0 MG/M3	DISP: Moribund Sacrifice	HISTO: 39441

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland [Carcinoma TGLS = 1,2,7-16+17+18]		Carcinoma	
* Prostate		Inflammation	Granulomatous, Moderate
* Skin	Subcut Tiss	Edema	Moderate
		Inflammation	Acute, Moderate
		Ulcer	Marked
[Edema TGLS = 6-19]			
[Inflammation TGLS = 6-9+19]			
[Ulcer TGLS = 7-18]			
* Testes	Interstit Cell	Hyperplasia	Mild
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH	- Preputial Gland Carcinoma
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma;Skin Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 446

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	Skeletal Muscle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 4-13]		
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
		Pigmentation	Minimal
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-14]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-9]		
* Thyroid Gland	Follicular Cel	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 447

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mediastinal		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 3-10]			
* Skin		Basal Cell Adenoma	
	Subcut Tiss	Fibroma	
[Basal Cell Adenoma TGLS = 2-14]			
[Fibroma TGLS = 1-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 448

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
[Cardiomyopathy TGLS = 2-13+6]			
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 449

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Liver	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Intestine Large, Cecum [Polyp Adenomatous TGLS = 5-13]		Polyp Adenomatous	
* Islets, Pancreatic [Carcinoma TGLS = 4-6]		Carcinoma	
* Kidney [Nephropathy TGLS = 3-7]		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mediastinal		Pigmentation	Mild
* Pancreas	Acinus	Atrophy	Mild
* Pituitary Gland [Adenoma TGLS = 1-10]	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 450

TRT#: 5

SEX: Male

DAY ON TEST: 661

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Marked
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-10]		
* Prostate		Inflammation	Suppurative, Marked
	[Inflammation TGLS = 5-10+13]		
* Seminal Vesicle		Inflammation	Suppurative, Marked
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-15]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2,3-14]		
* Urinary Bladder	Transit Epithe	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 601

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39297

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
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OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Liver		Clear Cell Focus	
* Lung		Alveolar/Bronchiolar Adenoma	
	Interstitial	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Mild
[Alveolar/Bronchiolar Adenoma TGLS = 1-14]			
[Hyperplasia TGLS = 1-4+5+14]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2,4-9+15]			
Tongue	Epithelium	Hyperplasia	Moderate
[Hyperplasia TGLS = 3-13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 602

TRT#: 7

SEX: Male

DAY ON TEST: 332

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39298

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Inflammation	Suppurative, Minimal
* Liver		Vacuolization Cytoplasmic	Moderate
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Hemorrhage	Marked
	[Adenoma TGLS = 1-10]		
	[Hemorrhage TGLS = 1-10]		
* Stomach, Forestomach		Ulcer	Marked
	[Ulcer TGLS = 2-10]		

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Hemorrhage;Stomach;Forestomach Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 603

TRT#: 7

SEX: Male

DAY ON TEST: 695

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39299

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
		Inflammation	Chronic, Mild
* Lung	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Moderate
* Nose		Inflammation	Suppurative, Moderate
* Skin	Hair Follicle	Atrophy	Mild
	[Atrophy TGLS = 4-13]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2,3-9]		
* Urinary Bladder	Transit Epithe	Hyperplasia	Marked
		Inflammation	Moderate

PRIMARY CAUSE OF DEATH

- Heart Cardiomyopathy

CONTRIBUTORY CAUSE OF DEATH

- Urinary Bladder Transit Epithe Hyperplasia;Urinary Bladder Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 604

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39300

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	Pleura	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Chronic, Mild
* Larynx		Inflammation	Chronic, Minimal
* Liver		Leukemia Mononuclear	
		Mixed Cell Focus	
	[Leukemia Mononuclear TGLS = 2-6]		
	[Mixed Cell Focus TGLS = 2-6]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-4+5+13]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Globet Cell, Respirat Epith	Hyperplasia	Mild
	Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
* Pancreas	Acinus	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 604

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39300

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

[Leukemia Mononuclear TGLS = 3-14]

Leukemia Mononuclear

* Testes

Germinal Epith

Atrophy

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 605

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39301

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Lung	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	Alveolar Epith	Metaplasia	Squamous, Marked
	Alveolus	Pigmentation	Mild
[Hyperplasia TGLS = 4-4+5+13]			
[Metaplasia TGLS = 3-13]			
* Lymph Node, Bronchial		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Skin		Hyperkeratosis	Marked
[Hyperkeratosis TGLS = 1-15]			
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 7-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5,6-9+14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 605

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39301

ORGAN AND ACCOUNTABLE SITE STATUS

* Urinary Bladder

Papilloma

Note: 5 step sections, no attachment to wall. Tumor is large, a few mitotic figures. Diff Dx transitional cell ca. rar

[Papilloma TGLS = 5,6-9+14]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 606

TRT#: 7

SEX: Male

DAY ON TEST: 558

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39302

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Parathyroid Gland

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
[Cardiomyopathy TGLS = 2-13]			
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
Note: TGL on slide 5 is small, autolyzed, compressing mass of epith cells. Unfortunately, autolysis precludes critical exam of cellular patterns/cytology.			
[Alveolar/Bronchiolar Adenoma TGLS = 3-5]			
* Lymph Node, Bronchial		Pigmentation	Minimal
* Testes	Interstit Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

- Heart Cardiomyopathy

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 607

TRT#: 7

SEX: Male

DAY ON TEST: 390

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39303

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Kidney	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Degeneration Inflammation	Mild Chronic, Minimal
* Lung	Alveolar Epith Bronchiole Alveolus	Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Moderate Moderate Histiocyte, Moderate Chronic Active, Mild
	Alveolar Epith	Metaplasia	Squamous, Mild
* Skin	Subcut Tiss	Mineralization Sarcoma	Minimal

[Sarcoma TGLS = 1-13+14]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 608

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39304

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Clear Cell Focus	
* Lung	Interstitial	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	Alveolar Epith	Metaplasia	Squamous, Marked
	Alveolus	Pigmentation	Mild
[Metaplasia TGLS = 3-5]			
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 609

TRT#: 7

SEX: Male

DAY ON TEST: 723

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39305

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Epididymis	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx
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OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronic, Moderate
* Liver		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Squamous, Marked

Note: diff dx, severe squamous metaplasia of alveolar epithelium. Leukemia, autolysis make dx hard.

[Metaplasia TGLS = 2-5]

Lymph Node	Iliac	Leukemia Mononuclear
	Renal	Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 5,8-15+16]

* Lymph Node, Bronchial	Leukemia Mononuclear
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[Leukemia Mononuclear TGLS = 7-14]

* Lymph Node, Mandibular	Leukemia Mononuclear
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[Leukemia Mononuclear TGLS = 7-14]

* Lymph Node, Mediastinal	Leukemia Mononuclear
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[Leukemia Mononuclear TGLS = 7-14]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 609	TRT#: 7	SEX: Male	DAY ON TEST: 723
	DOSE: 2.0 MG/M3	DISP: Natural Death	HISTO: 39305

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 7-14]		Leukemia Mononuclear	
* Pituitary Gland [Adenoma TGLS = 1-10] [Angiectasis TGLS = 1-10]	Pars Distalis	Adenoma Angiectasis	Marked
* Spleen [Leukemia Mononuclear TGLS = 3,4-13]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 6-9]	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma
CONTRIBUTORY CAUSE OF DEATH	- Pituitary Gland Angiectasis;Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 610

TRT#: 7

SEX: Male

DAY ON TEST: 533

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39306

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 3-9]			
* Kidney		Nephropathy	Chronic, Minimal
[Nephropathy TGLS = 2-7]			
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
		Inflammation	Chronic, Minimal
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Pigmentation	Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 3-9]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
Oral Mucosa		Inflammation	Suppurative, Mild
Note: suppurative inflam in palate in nasal xs1.			
* Seminal Vesicle		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 610	TRT#: 7	SEX: Male	DAY ON TEST: 533
	DOSE: 2.0 MG/M3	DISP: Moribund Sacrifice	HISTO: 39306

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-9]	Bilateral, Interstit Cell	Adenoma	
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild
PRIMARY CAUSE OF DEATH	- Oral Mucosa Inflammation		
CONTRIBUTORY CAUSE OF DEATH	- Lung Alveolus Infiltration Cellular;Tooth Peridont Tiss Inflammation		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 611

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39307

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Mild
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung	Interstitial	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Squamous, Marked
	Alveolus	Pigmentation	Mild
	[Hyperplasia TGLS = 3-4+5]		
	[Metaplasia TGLS = 4-5]		
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 611

TRT#: 7

DOSE: 2.0 MG/M3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 39307

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 7-10]			
* Prostate		Inflammation	Suppurative, Minimal
* Skin		Cyst	Marked
[Cyst TGLS = 5-14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 612

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39308

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung	Interstitial	Fibrosis	Moderate
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Moderate
	Alveolar Epith	Metaplasia	Squamous, Marked
	Alveolus	Pigmentation	Mild
	[Metaplasia TGLS = 2-14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-10]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-15]		
* Testes	Interstitial Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 613

TRT#: 7

DOSE: 2.0 MG/M3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 729

HISTO: 39309

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Inflammation	Chronic, Minimal
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-6]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Moderate
	Alveolus	Pigmentation	Mild
	[Alveolar/Bronchiolar Carcinoma TGLS = 3-13+15+4]		
	[Hyperplasia TGLS = 4-4+5]		
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-10]		
* Skin		Cyst	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 613	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 2.0 MG/M3	DISP: Terminal Sacrifice	HISTO: 39309

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 1,2-14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-6]			
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
[Adenoma TGLS = 5-9]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 614

TRT#: 7

DOSE: 2.0 MG/M3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 39310

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Mild
	Epiglottis, Respirat Epith	Inflammation	Chronic, Mild
		Metaplasia	Squamous, Minimal
Note: 2+hyperplasia in and dorsal to vp.			
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
[Hepatodiaphragmatic Nodule TGLS = 9-16]			
* Lung	Interstitium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	Alveolar Epith	Metaplasia	Squamous, Marked
	Bronchiole	Metaplasia	Squamous, Marked
	Alveolus	Pigmentation	Mild
[Infiltration Cellular TGLS = 4-4+5+14]			
[Metaplasia TGLS = 3-4+14]			
* Lymph Node, Bronchial		Pigmentation	Mild
* Lymph Node, Mediastinal		Pigmentation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 614

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39310

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Galactocele	Moderate
Note: This slide contains mamm gland with galactocele; tgl 10 says mesenteric fat mass, must be in error. [Galactocele TGLS = 10-18]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-10]			
* Skin		Hyperkeratosis Trichoepithelioma	Marked
[Hyperkeratosis TGLS = 8-13] [Trichoepithelioma TGLS = 2-17]			
* Spleen		Fibrosis	Minimal
[Fibrosis TGLS = 7-15]			
* Testes	Interstit Cell Germinal Epith	Adenoma Atrophy	Marked
[Adenoma TGLS = 6-9]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 615

TRT#: 7

SEX: Male

DAY ON TEST: 552

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39311

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Mild
	Alveolar Epith	Metaplasia	Squamous, Marked
	Alveolus	Pigmentation	Minimal
		Note: Possible diff dx is metastatic squamous cell ca from skin but skin lesion on slide 14 is typical keratoacanthoma, and lung lesion is classifiable as metaplasia.	
	[Metaplasia TGLS = 2-5]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-14]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 615

TRT#: 7

SEX: Male

DAY ON TEST: 552

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39311

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

Animal Note: Autolysis makes interpretation of tissues from this animal more difficult.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 616

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39312

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Liver		Basophilic Focus	
		Hepatodiaphragmatic Nodule	
		Vacuolization Cytoplasmic	Mild
	[Hepatodiaphragmatic Nodule TGLS = 4-13]		
* Lung	Interstitial	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Pigmentation	Mild
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Pancreas	Artery	Inflammation	Marked
	[Inflammation TGLS = 3-14]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Testes	Interstitial Cell	Adenoma	
	Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 616

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39312

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-9]

[Atrophy TGLS = 2-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 617

TRT#: 7

SEX: Male

DAY ON TEST: 631

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39313

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Brain		Hemorrhage	Marked
[Hemorrhage TGLS = 7,8-1]			
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
* Liver		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	Artery	Leukemia Mononuclear	
Lymph Node	Pancreatic	Mineralization	Moderate
[Leukemia Mononuclear TGLS = 3,4-14+16]		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-12]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-12]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-12]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 617

TRT#: 7

SEX: Male

DAY ON TEST: 631

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39313

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 10-12]		Leukemia Mononuclear	
Mesentery Fat [Leukemia Mononuclear TGLS = 6-13+18] [Necrosis TGLS = 5-17]		Leukemia Mononuclear Necrosis	Moderate
* Nose Goblet Cell, Respirat Epith		Foreign Body Hyperplasia Inflammation	Mild Suppurative, Mild
Oral Mucosa [Hyperplasia TGLS = 10-12]	Pharyngeal	Hyperplasia	Squamous, Marked
* Pituitary Gland [Adenoma TGLS = 9-10]	Pars Distalis	Adenoma	
* Prostate		Inflammation	Suppurative, Moderate
* Spleen [Fibrosis TGLS = 2-15] [Leukemia Mononuclear TGLS = 1-14+15]		Fibrosis Leukemia Mononuclear	Moderate

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Brain Hemorrhage;Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 618

TRT#: 7

SEX: Male

DAY ON TEST: 661

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39314

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Bone Marrow		Hyperplasia	Lymphoid, Moderate
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Foreign Body	
		Hyperplasia	Moderate
		Inflammation	Suppurative, Minimal
		Inflammation	Chronic, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver	Portal	Pigmentation	Marked
[Pigmentation TGLS = 5-6]			
* Lung	Interstitial	Fibrosis	Marked
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Moderate
	Alveolar Epith	Metaplasia	Squamous, Marked
[Metaplasia TGLS = 3,4-5]			
* Lymph Node, Bronchial		Pigmentation	Mild
* Lymph Node, Mediastinal		Inflammation	Granulomatous, Marked
		Pigmentation	Moderate
Mesentery	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 618

TRT#: 7

SEX: Male

DAY ON TEST: 661

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39314

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 7-15]

* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Preputial Gland		Carcinoma	

[Carcinoma TGLS = 1,2-13+14+17]

* Skin		Basal Cell Carcinoma	
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[Basal Cell Carcinoma TGLS = 8-16]

* Testes	Bilateral, Interstit Cell	Adenoma	
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[Adenoma TGLS = 6-10]

PRIMARY CAUSE OF DEATH - Preputial Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 619

TRT#: 7

SEX: Male

DAY ON TEST: 636

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39315

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
		Inflammation	Chronic, Moderate
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Mild
		Leukemia Mononuclear	
		[Hepatodiaphragmatic Nodule TGLS = 2-13]	
		[Leukemia Mononuclear TGLS = 3-6]	
* Lung	Interstitium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
	Alveolus	Pigmentation	Mild
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 619

TRT#: 7

SEX: Male

DAY ON TEST: 636

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39315

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Adenoma

* Spleen

Fibrosis

Moderate

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-14]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 620

TRT#: 7

SEX: Male

DAY ON TEST: 542

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39316

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx		Inflammation	Chronic, Minimal
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 2-13]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Mild
* Lymph Node, Mandibular		Inflammation	Acute, Mild
* Lymph Node, Mediastinal		Inflammation	Granulomatous, Moderate
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
	Respirat Epith	Hyperplasia	Moderate
		Inflammation	Suppurative, Marked
Oral Mucosa	Pharyngeal	Ulcer	Marked
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Tooth		Odontoma	

Note: Well-formed odontoma lying in right nasal cavity at levels 1 and 2, with hyperplasia and inflam of adjacent nasal tissues.

PRIMARY CAUSE OF DEATH

- Tooth Odontoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 621

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39317

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic, Minimal
* Liver		Clear Cell Focus Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung	Alveolar Epith Bronchiole Alveolus Alveolar Epith	Alveolar/Bronchiolar Carcinoma Hyperplasia Hyperplasia Infiltration Cellular Metaplasia	Moderate Moderate Histiocyte, Moderate Squamous, Marked
	[Alveolar/Bronchiolar Carcinoma TGLS = 2-14]		
	[Hyperplasia TGLS = 1-4+5+14]		
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Fibrosis Leukemia Mononuclear	Moderate
	[Fibrosis TGLS = 4-15]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 621

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39317

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-15]

* Testes

Interstit Cell

Adenoma

Germinal Epith

Atrophy

Marked

[Adenoma TGLS = 3-13+9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 622

TRT#: 7

SEX: Male

DAY ON TEST: 712

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39318

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
		Inflammation	Suppurative, Marked
		Inflammation	Chronic, Marked
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Thrombosis	Moderate
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Moderate
		Leukemia Mononuclear	
	Alveolar Epith	Metaplasia	Squamous, Marked
	Bronchiole	Metaplasia	Squamous, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 622

TRT#: 7

SEX: Male

DAY ON TEST: 712

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39318

ORGAN AND ACCOUNTABLE SITE STATUS

[Metaplasia TGLS = 1-4+13]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-15]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Nose		Inflammation	Suppurative, Minimal
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 2-16]			
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Fibrosis TGLS = 5-14]			
[Leukemia Mononuclear TGLS = 4-14]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-9]			
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild
PRIMARY CAUSE OF DEATH	- Spleen	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 623

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39319

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6+15]			
* Lung	Interstitial	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Pigmentation	Moderate
* Lymph Node, Bronchial		Pigmentation	Mild
* Lymph Node, Mediastinal		Pigmentation	Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-16]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Seminal Vesicle		Inflammation	Granulomatous, Moderate
[Inflammation TGLS = 1-16]			
* Spleen		Fibrosis	Marked
		Leukemia Mononuclear	
[Fibrosis TGLS = 3,4-13+14]			
[Leukemia Mononuclear TGLS = 1-16]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 623	TRT#: 7	SEX: Male	DAY ON TEST: 730
	DOSE: 2.0 MG/M3	DISP: Terminal Sacrifice	HISTO: 39319

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach [Diverticulum TGLS = 7-17]		Diverticulum
* Testes [Adenoma TGLS = 2-9]	Bilateral, Interstit Cell	Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 624

TRT#: 7

SEX: Male

DAY ON TEST: 687

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39320

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Epididymis
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Marked
[Hemorrhage TGLS = 6-1]			
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Inflammation	Chronic, Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 4-6]			
* Lung		Alveolar/Bronchiolar Adenoma	
	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
[Alveolar/Bronchiolar Adenoma TGLS = 7-13]			
[Fibrosis TGLS = 7-13]			
[Infiltration Cellular TGLS = 7-13]			
[Leukemia Mononuclear TGLS = 7-13]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 624	TRT#: 7	SEX: Male	DAY ON TEST: 687
	DOSE: 2.0 MG/M3	DISP: Moribund Sacrifice	HISTO: 39320

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose		Pigmentation	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Respirat Epith	Metaplasia	Squamous, Minimal
[Adenoma TGLS = 1-10]	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-14]			
* Stomach, Forestomach		Ulcer	Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-9]			

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Brain Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 625

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39321

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

Eye [Cataract TGLS = 1-16]	Lens	Cataract	Moderate
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic, Minimal
* Liver [Clear Cell Focus TGLS = 7-14] [Leukemia Mononuclear TGLS = 7-14]		Clear Cell Focus Leukemia Mononuclear	
* Lung [Hyperplasia TGLS = 3-4+5+13] [Metaplasia TGLS = 4-13]	Interstitial Alveolar Epith Bronchiole Alveolus Alveolar Epith Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation Metaplasia Pigmentation	Moderate Marked Marked Histiocyte, Marked Chronic Active, Moderate Squamous, Marked Mild
* Lymph Node, Mediastinal		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 625

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39321

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 8-17]

* Nose		Inflammation	Suppurative, Minimal
* Pancreas	Acinus	Hyperplasia	Moderate
* Pituitary Gland	Pars Intermed	Adenoma	

[Adenoma TGLS = 2-10]

* Prostate		Inflammation	Suppurative, Minimal
* Spleen		Leukemia Mononuclear	

[Leukemia Mononuclear TGLS = 6-15]

* Stomach, Forestomach		Cyst	Marked
	Epithelium	Hyperplasia	Marked

[Cyst TGLS = 8-17]

[Hyperplasia TGLS = 8-17]

* Testes	Bilateral, Interstit Cell	Adenoma	
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[Adenoma TGLS = 5-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 626

TRT#: 7

SEX: Male

DAY ON TEST: 675

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39322

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Lung	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
	Interstitium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
	Alveolar Epith	Metaplasia	Squamous, Marked
	Bronchiole	Metaplasia	Squamous, Marked
	Alveolus	Pigmentation	Mild
		Squamous Cell Carcinoma	Metastatic (Oral Mucosa)

Note: There is squamous cell ca in vessels in slide 5, which is the left lobe. Areas of squamous metaplasia in slides 5 and 13 (r apical lobe). No primary in lungs.

[Hyperplasia TGLS = 2-4+5+13]

[Infiltration Cellular TGLS = 2-4+5+13]

[Metaplasia TGLS = 1-13]

* Lymph Node, Mediastinal		Pigmentation	Mild
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
Oral Mucosa		Squamous Cell Carcinoma	

Note: Infiltrating squamous ca above and around molar tooth, slide 12. Primary site unclear; coded as oral mucosa, could easily be Zymbals gland, sal gl duct, ?

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 626

TRT#: 7

DOSE: 2.0 MG/M3

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 675

HISTO: 39322

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Hyperplasia

Marked

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Oral Mucosa Squamous Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 627

TRT#: 7

SEX: Male

DAY ON TEST: 561

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39323

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Granulomatous, Minimal
		Vacuolization Cytoplasmic	Mild
[Vacuolization Cytoplasmic TGLS = 4-6]			
* Lung		Alveolar/Bronchiolar Adenoma	
	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild

Note: low grade a/b ca with some fibrosis; diff dx adenoma.

Note: foci of mucopurulent exudate in hyperplastic alveoli.

[Alveolar/Bronchiolar Adenoma TGLS = 1-5]

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 627

TRT#: 7

SEX: Male

DAY ON TEST: 561

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39323

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 2-10]	Pars Distalis	Adenoma	
* Prostate [Inflammation TGLS = 3-14]		Inflammation	Suppurative, Marked
* Seminal Vesicle		Inflammation	Suppurative, Moderate
* Stomach, Forestomach [Inflammation TGLS = 5-13] [Necrosis TGLS = 5-13]	Epithelium	Hyperplasia Inflammation Necrosis	Mild Suppurative, Marked Marked
* Testes	Interstit Cell	Hyperplasia	Minimal
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Prostate Inflammation;Stomach;Forestomach Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 628

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39324

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver	Bile Duct	Hyperplasia	Minimal
* Lung	Interstitium	Fibrosis	Moderate
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Moderate
	Alveolus	Pigmentation	Mild
[Fibrosis TGLS = 1-13]			
[Hyperplasia TGLS = 1-4+5+13]			
[Hyperplasia TGLS = 1-4+5+13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Testes	Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 628

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39324

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-14]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 629

TRT#: 7

SEX: Male

DAY ON TEST: 629

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39325

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Brain		Hemorrhage	Marked
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Moderate
		Inflammation	Suppurative, Minimal
		Inflammation	Chronic, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Marked
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 4-16]		
	[Leukemia Mononuclear TGLS = 2-6+16]		
* Lung	Interstitium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
	Alveolus	Pigmentation	Mild
	[Leukemia Mononuclear TGLS = 1-4+5]		
	Lymph Node	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-15]		
* Lymph Node, Bronchial		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 629

TRT#: 7

SEX: Male

DAY ON TEST: 629

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39325

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-17]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	
		Necrosis	Marked
[Leukemia Mononuclear TGLS = 5-13+14]			
[Necrosis TGLS = 6-14]			
* Stomach, Glandular		Necrosis	Minimal
[Necrosis TGLS = 9-17]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 8-9]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Brain Hemorrhage;Spleen Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 630

TRT#: 7

SEX: Male

DAY ON TEST: 684

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39326

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Urinary Bladder		

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 4-7]			
* Larynx	Epiglottis, Respirat Epith	Hyperplasia Inflammation Inflammation	Moderate Suppurative, Minimal Chronic, Mild
	Epiglottis, Respirat Epith Respirat Epith	Metaplasia Ulcer	Squamous, Mild Moderate
* Liver		Hepatodiaphragmatic Nodule Vacuolization Cytoplasmic	Moderate
[Hepatodiaphragmatic Nodule TGLS = 5,6,7-13+14+15]			
* Lung	Interstitialium Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Mild Marked Marked Histiocyte, Marked Chronic Active, Moderate
	Alveolar Epith Bronchiole	Metaplasia Metaplasia	Squamous, Marked Squamous, Marked
[Infiltration Cellular TGLS = 8-4+5]			
[Metaplasia TGLS = 9-5]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 630	TRT#: 7	SEX: Male	DAY ON TEST: 684
	DOSE: 2.0 MG/M3	DISP: Moribund Sacrifice	HISTO: 39326

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Goblet Cell, Respirat Epith Respirat Epith	Hyperplasia Hyperplasia Inflammation	Moderate Marked Suppurative, Marked
* Pituitary Gland [Adenoma TGLS = 2-10]	Respirat Epith Pars Distalis	Metaplasia Adenoma	Squamous, Mild
* Preputial Gland [Hyperplasia TGLS = 1-16+17]		Hyperplasia	Marked
* Stomach, Forestomach		Ulcer	Moderate
* Testes [Adenoma TGLS = 3-9]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
* Trachea	Epithelium	Degeneration	Moderate

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 631

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39327

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Lung	Interstitium	Fibrosis	Moderate
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Moderate
	Alveolar Epith	Metaplasia	Squamous, Marked
	[Metaplasia TGLS = 1-4]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-10]		
* Preputial Gland		Carcinoma	
	Note: Lesion is small, some encapsulation but penetrates capsule at at least one point.		
	[Carcinoma TGLS = 3,4-9+13]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 5-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 632

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39328

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
		Pheochromocytoma Benign	
Eye		Atrophy	Marked
[Atrophy TGLS = 3-16]			
* Kidney		Accumulation, Hyaline Droplet	Marked
		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
		Inflammation	Chronic, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Moderate
* Lung		Alveolar/Bronchiolar Carcinoma	
	Interstitialium	Fibrosis	Marked
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Marked
	Alveolar Epith	Metaplasia	Squamous, Marked
	Bronchiole	Metaplasia	Squamous, Marked
	Alveolus	Pigmentation	Moderate
[Alveolar/Bronchiolar Carcinoma TGLS = 2-13+14]			
[Fibrosis TGLS = 2-13+14]			
[Hyperplasia TGLS = 5,7-5+4]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 632	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 2.0 MG/M3	DISP: Terminal Sacrifice	HISTO: 39328

ORGAN AND ACCOUNTABLE SITE STATUS

[Metaplasia TGLS = 6-15]			
* Lymph Node, Bronchial		Pigmentation	Moderate
* Lymph Node, Mediastinal		Angiectasis	Marked
		Pigmentation	Moderate
[Angiectasis TGLS = 8-3]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pancreas	Acinus	Atrophy	Moderate
* Skin		Cyst	Marked
[Cyst TGLS = 1-17]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 633

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39329

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Mild Mild Chronic, Minimal
* Liver		Clear Cell Focus	
* Lung	Bile Duct Interstitialium Alveolar Epith Bronchiole Alveolus Alveolus	Hyperplasia Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation Pigmentation	Mild Moderate Marked Marked Histiocyte, Marked Chronic Active, Moderate Moderate
[Hyperplasia TGLS = 4-5]			
* Lymph Node, Mediastinal		Pigmentation	Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-13]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1,2-9]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 634

TRT#: 7

SEX: Male

DAY ON TEST: 642

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39330

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose	

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Hyperplasia Metaplasia	Moderate Squamous, Moderate
* Liver	[Hepatodiaphragmatic Nodule TGLS = 3-13]	Hepatodiaphragmatic Nodule	
* Lung	Alveolar Epith Alveolus Alveolar Epith Bronchiole Alveolus	Hyperplasia Infiltration Cellular Metaplasia Metaplasia Pigmentation	Mild Histiocyte, Moderate Squamous, Marked Squamous, Marked Minimal
	[Metaplasia TGLS = 5-5]		
	[Metaplasia TGLS = 5-5]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-10]		
* Testes	Germinal Epith	Atrophy	Moderate
	[Atrophy TGLS = 2-9]		

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 635

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39331

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver		Clear Cell Focus	
	Bile Duct	Hepatodiaphragmatic Nodule	
		Hyperplasia	Minimal
	[Clear Cell Focus TGLS = 3-13]		
	[Hepatodiaphragmatic Nodule TGLS = 4-14]		
	[Hyperplasia TGLS = 3-13]		
* Lung	Interstitial	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-10]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 635

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39331

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 636

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39332

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Chronic, Marked
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	Alveolar Epith	Metaplasia	Squamous, Mild
	Bronchiole	Metaplasia	Squamous, Mild
	Alveolus	Pigmentation	Mild
[Hyperplasia TGLS = 2-4+5]			
* Lymph Node, Mediastinal		Pigmentation	Mild
* Mammary Gland		Galactocele	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-13]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 636	TRT#: 7	SEX: Male	DAY ON TEST: 730
	DOSE: 2.0 MG/M3	DISP: Terminal Sacrifice	HISTO: 39332

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin	Subcut Tiss	Fibroma	
	Subcut Tiss	Lipoma	
	[Fibroma TGLS = 6-15]		
	[Lipoma TGLS = 5-14]		
* Testes	Interstit Cell	Adenoma	
	Germinal Epith	Atrophy	Marked
	[Adenoma TGLS = 4-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 637

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39333

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Mild Minimal Chronic, Minimal
* Liver		Clear Cell Focus Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
	Portal	Inflammation	Chronic Active, Moderate
		Inflammation	Granulomatous, Moderate
	Portal	Pigmentation	Marked
	[Clear Cell Focus TGLS = 3-6]		
	[Hepatodiaphragmatic Nodule TGLS = 9-14]		
	[Inflammation TGLS = 4,5-15]		
	[Inflammation TGLS = 4,5-15]		
* Lung	Interstitial	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Pigmentation	Moderate
	[Hyperplasia TGLS = 8-13]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 637	TRT#: 7	SEX: Male	DAY ON TEST: 729
	DOSE: 2.0 MG/M3	DISP: Terminal Sacrifice	HISTO: 39333

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node		Inflammation	Granulomatous, Moderate
	Pancreatic	Pigmentation	Moderate
[Inflammation TGLS = 7-17]			
[Pigmentation TGLS = 7-17]			
* Lymph Node, Bronchial		Pigmentation	Mild
* Lymph Node, Mediastinal		Pigmentation	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Fibrosis	Marked
[Fibrosis TGLS = 2-16]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 10-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 638

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39334

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
		Inflammation	Chronic, Mild
* Lung	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Moderate
	Alveolus	Pigmentation	Moderate
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-10]		
* Skin		Cyst	Moderate
	[Cyst TGLS = 1-13+14]		
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-9]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 639

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39335

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Mild
* Liver	Bile Duct	Hyperplasia	Mild
	Portal	Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Lung		Alveolar/Bronchiolar Adenoma	
	Interstitialium	Fibrosis	Mild
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Mild
	Alveolus	Pigmentation	Mild
	[Alveolar/Bronchiolar Adenoma TGLS = 3-4+5+15]		
	[Hyperplasia TGLS = 3-4+5+15]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 8-17]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-10]		
* Preputial Gland		Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 639

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39335

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibroma TGLS = 7-13+14]	Subcut Tiss	Fibroma
* Spleen Note: early MCL, spleen and liver. [Leukemia Mononuclear TGLS = 7-13+14]		Leukemia Mononuclear
* Testes [Adenoma TGLS = 4,5,6-9+16]	Bilateral, Interstit Cell	Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 640

TRT#: 7

DOSE: 2.0 MG/M3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 39336

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	Portal	Inflammation	Chronic Active, Minimal
	[Hepatodiaphragmatic Nodule TGLS = 7-15]		
* Lung	Interstitium	Fibrosis	Marked
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Moderate
	Alveolus	Pigmentation	Mild
	[Fibrosis TGLS = 5-5]		
	[Hyperplasia TGLS = 5-5]		
	[Infiltration Cellular TGLS = 4,5-4+5+14]		
* Lymph Node, Bronchial		Pigmentation	Minimal
* Mammary Gland		Galactocele	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 640

TRT#: 7

DOSE: 2.0 MG/M3

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 730

HISTO: 39336

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 2-13]	Fat	Necrosis	Marked
* Nose	Olfactory Epi Goblet Cell, Respirat Epith	Degeneration Hyperplasia	Hyaline, Mild Mild
* Pituitary Gland [Adenoma TGLS = 6-10]	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 641

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39337

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Medulla		Ganglioneuroma	
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Lung	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	Alveolar Epith	Metaplasia	Squamous, Minimal
	Alveolus	Pigmentation	Mild
	[Hyperplasia TGLS = 5-4+5]		
* Lymph Node, Bronchial		Pigmentation	Mild
* Skin		Hyperkeratosis	Mild
	[Hyperkeratosis TGLS = 1-14]		
* Spleen		Fibrosis	Mild
	[Fibrosis TGLS = 4-13]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2,3-9]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 641

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39337

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 642

TRT#: 7

SEX: Male

DAY ON TEST: 623

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39338

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hemorrhage	Moderate
		Vacuolization Cytoplasmic	Marked
[Vacuolization Cytoplasmic TGLS = 6-7]			
Blood Vessel	Aorta	Thrombosis	Marked
* Heart		Cardiomyopathy	Moderate
[Cardiomyopathy TGLS = 2-15]			
* Kidney		Nephropathy	Chronic, Marked
[Nephropathy TGLS = 7-7]			
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Moderate
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver		Vacuolization Cytoplasmic	Marked
[Vacuolization Cytoplasmic TGLS = 5-6]			
* Lung	Mediastinum	Hemorrhage	Marked
		Hemorrhage	Moderate
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
[Hemorrhage TGLS = 11-14]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 8-16]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 642

TRT#: 7

SEX: Male

DAY ON TEST: 623

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39338

ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pancreas		Infiltration Cellular	Lipocyte, Moderate
* Pituitary Gland [Adenoma TGLS = 3-10]	Pars Distalis	Adenoma	
* Stomach, Forestomach [Diverticulum TGLS = 9-17]		Diverticulum	
* Testes [Atrophy TGLS = 4-9]	Germinal Epith	Atrophy	Marked
* Thymus [Hemorrhage TGLS = 10,11-13+14]		Hemorrhage	Marked

PRIMARY CAUSE OF DEATH - Blood Vessel Aorta Thrombosis

CONTRIBUTORY CAUSE OF DEATH - Heart Cardiomyopathy;Lung Mediastinum Hemorrhage;Thymus Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 643

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39339

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
	Epiglottis, Respirat Epith	Inflammation	Chronic, Mild
		Metaplasia	Squamous, Mild
	Note: Lesions extend to most caudal xs, photogenic.		
* Liver	Bile Duct	Hyperplasia	Minimal
	Portal	Inflammation	Chronic Active, Minimal
* Lung	Interstitium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Pigmentation	Minimal
	[Hyperplasia TGLS = 3-5]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-10]		
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 644

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39340

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic, Minimal
* Liver	Bile Duct Portal	Bile Stasis Dilatation Pigmentation	Moderate Marked Mild
* Lung	Interstitialium Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Moderate Marked Marked Histiocyte, Marked Chronic Active, Moderate
Note: proteinosis in lung looks more like mucus than surfactant, but cant dx it as mucus.			
* Nose		Inflammation	Suppurative, Mild
* Spleen		Fibrosis	Moderate
[Fibrosis TGLS = 3-13]			
* Testes	Bilateral, Interstit Cell Germinal Epith	Adenoma Atrophy	Marked
[Adenoma TGLS = 1-9]			
[Atrophy TGLS = 2-9]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 644

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39340

ORGAN AND ACCOUNTABLE SITE STATUS

Tooth	Peridont Tiss	Inflammation	Suppurative, Mild
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 645

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39341

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Bronchial
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 3-13]		
* Lung	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Moderate
		Metaplasia	Minimal
	Alveolus	Pigmentation	Mild
	[Hyperplasia TGLS = 4-4+5]		
	[Infiltration Cellular TGLS = 4-4+5]		
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 645

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39341

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1,2-9]

* Thyroid Gland

C Cell

Carcinoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 646

TRT#: 7

DOSE: 2.0 MG/M3

SEX: Male

DISP: Moribund Sacrifice

DAY ON TEST: 578

HISTO: 39342

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Brain		Hemorrhage	Mild
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Moderate
	Epiglottis, Respirat Epith	Inflammation	Suppurative, Moderate
		Metaplasia	Squamous, Moderate
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung	Interstitial	Fibrosis	Moderate
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
	[Hyperplasia TGLS = 3-4+5]		
	[Leukemia Mononuclear TGLS = 6-6]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-9]		
* Lymph Node, Mandibular		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-9]		
* Lymph Node, Mediastinal		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-9]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 646

TRT#: 7

SEX: Male

DAY ON TEST: 578

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39342

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric

[Leukemia Mononuclear TGLS = 5-15]

Leukemia Mononuclear

* Nose

Respirat Epith

Inflammation

Suppurative, Minimal

Metaplasia

Squamous, Minimal

* Spleen

[Leukemia Mononuclear TGLS = 4-14]

Leukemia Mononuclear

Tongue

[Squamous Cell Papilloma TGLS = 7-13]

Squamous Cell Papilloma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 647

TRT#: 7

SEX: Male

DAY ON TEST: 616

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39343

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Nose	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
		Inflammation	Chronic, Minimal
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLS = 1-13]		
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Alveolus	Pigmentation	Moderate
	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-10]		

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 648

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39344

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Epididymis	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Moderate
* Bone Marrow		Leukemia Mononuclear	
Eye	Lens	Cataract	Moderate
[Cataract TGLS = 2-16]			
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic, Minimal
* Liver	Bile Duct	Hepatodiaphragmatic Nodule Hyperplasia Leukemia Mononuclear	Moderate
[Hepatodiaphragmatic Nodule TGLS = 8-14]			
[Leukemia Mononuclear TGLS = 7-6]			
* Lung	Interstitialium Alveolar Epith Bronchiole Alveolus	Alveolar/Bronchiolar Adenoma Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation Leukemia Mononuclear	Moderate Marked Marked Histiocyte, Marked Chronic Active, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 648

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39344

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-4+5]	Alveolar Epith	Metaplasia	Squamous, Mild
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Skin		Cyst	Marked
[Cyst TGLS = 3-17]			
* Spleen		Fibrosis	Mild
[Fibrosis TGLS = 9-15]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-15]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 5-9+13]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 649

TRT#: 7

SEX: Male

DAY ON TEST: 538

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39345

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mediastinal

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Adrenal Cortex		Necrosis	Mild
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
* Prostate		Inflammation	Suppurative, Marked

PRIMARY CAUSE OF DEATH

- Prostate Inflammation

Animal Note: Pituitary has 2 areas of hyperplasia but no severe compression from tumor or cysts evident in section.

Animal Note: No clear cause of death was determined. Severe prostatitis may have blocked urine flow, but renal pelvis/tubules not dilated.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 650

TRT#: 7

DOSE: 2.0 MG/M3

SEX: Male

DISP: Natural Death

DAY ON TEST: 685

HISTO: 39346

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Epididymis	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum * Intestine Small, Jejunum

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Marked
* Larynx		Foreign Body	
	Epiglottis, Respirat Epith	Hyperplasia	Marked
		Inflammation	Chronic, Marked
		Inflammation	Suppurative, Marked
* Lung	Epiglottis, Respirat Epith	Metaplasia	Squamous, Marked
	Interstitium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Mild
	Alveolar Epith	Metaplasia	Squamous, Marked
Note: slide 13 is a/b ca with squamous metaplasia in tumor.			
[Metaplasia TGLS = 5-13]			
* Lymph Node, Mediastinal		Pigmentation	Mild
* Mammary Gland		Galactocele	Marked
[Galactocele TGLS = 6-14]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 650

TRT#: 7

SEX: Male

DAY ON TEST: 685

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39346

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery	Artery	Inflammation	Marked
* Pancreas	Artery	Inflammation	Marked
* Pituitary Gland [Adenoma TGLS = 4-10]	Pars Distalis	Adenoma	
* Skin [Cyst TGLS = 1-15]		Cyst	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 101

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39247

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Adenoma	
[Adenoma TGLS = 1-9]			
* Kidney		Nephropathy	Chronic, Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mediastinal		Pigmentation	Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-15+16]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 102

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39248

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 103

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39249

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Lung		Inflammation	Chronic Active, Minimal
* Lymph Node, Mediastinal		Pigmentation	Mild
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 104

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39250

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
Tissue NOS	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Islets, Pancreatic		Adenoma	
* Lung	Interstitial	Fibrosis	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13+14]			
* Ovary		Cyst	Marked
[Cyst TGLS = 3-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 105

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39251

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-10]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Galactocele	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Cyst	Mild
[Cyst TGLS = 1-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 106

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39252

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Medulla [Pheochromocytoma Benign TGLS = 5-7]		Pheochromocytoma Benign	
* Larynx	Epiglottis, Respirat Epith	Degeneration Inflammation	Minimal Suppurative, Minimal
* Liver [Hepatodiaphragmatic Nodule TGLS = 4-6]		Hepatodiaphragmatic Nodule	
Mesentery [Necrosis TGLS = 3-14]	Fat	Necrosis	Mild
* Pituitary Gland [Adenoma TGLS = 1-10]	Pars Distalis	Adenoma	
Tooth	Peridont Tiss	Inflammation	Suppurative, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 107

TRT#: 2

SEX: Female

DAY ON TEST: 638

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39253

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Hemorrhage	Marked
[Hemorrhage TGLS = 1-1]			
* Kidney		Nephropathy	Chronic, Minimal
* Larynx		Inflammation	Suppurative, Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-15]		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-13]			
* Stomach, Forestomach		Ulcer	Marked
[Ulcer TGLS = 6-15]			
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 107

TRT#: 2

SEX: Female

DAY ON TEST: 638

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39253

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Brain Hemorrhage;Lymph Node;Mediastinal Leukemia Mononuclear;Stomach;Forestomach Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 108

TRT#: 2

SEX: Female

DAY ON TEST: 624

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39254

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Marked
* Brain		Hemorrhage	Marked
[Hemorrhage TGLS = 9-1]			
* Kidney	Cortex, Renal Tubule	Necrosis	Minimal
[Necrosis TGLS = 5-16]			
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 2-13]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
[Hyperplasia TGLS = 7-10]			
* Spleen		Accessory Spleen	
[Accessory Spleen TGLS = 4-15]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-14]			
* Stomach, Forestomach		Ulcer	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:41
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 108	TRT#: 2 DOSE: CONTROL	SEX: Female DISP: Moribund Sacrifice	DAY ON TEST: 624 HISTO: 39254
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ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 11-20] * Stomach, Glandular Note: this is a diverticulum off glandular stomach, not a cyst. [Cyst TGLS = 8-18]	Cyst	Moderate
* Uterus [Polyp Stromal TGLS = 6-17]	Polyp Stromal	

PRIMARY CAUSE OF DEATH	- Spleen Leukemia Mononuclear
CONTRIBUTORY CAUSE OF DEATH	- Brain Hemorrhage;Stomach;Forestomach Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 109

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39255

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Hyperplasia	Moderate
Eye	Lens	Pheochromocytoma Benign	
[Cataract TGLS = 4-14]		Cataract	Moderate
* Larynx		Inflammation	Chronic, Minimal
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 10-15]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-15]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Lymph Node	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-19]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-13]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-9]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 109

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39255

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-3]

* Lymph Node, Mesenteric

* Pituitary Gland

Pars Distalis

Leukemia Mononuclear

Adenoma

Leukemia Mononuclear

[Adenoma TGLS = 5-10]

[Leukemia Mononuclear TGLS = 5-10]

* Spleen

Accessory Spleen

Leukemia Mononuclear

[Accessory Spleen TGLS = 7-18]

[Leukemia Mononuclear TGLS = 6,11-16+17+18]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 110

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39256

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lymph Node, Mandibular	* Nose
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 3-15]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Lymph Node, Mesenteric		Hemorrhage	Mild
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2,3-13+14+15+16+17]			
* Pancreas	Acinus	Atrophy	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 111

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39257

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx		Inflammation	Suppurative, Mild
* Liver		Basophilic Focus	
[Basophilic Focus TGLS = 3-6]			
* Lung	Interstitial	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Suppurative, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Atrophy	Marked
		Cyst	Marked
[Cyst TGLS = 2-9]			
Pleura		Inflammation	Chronic, Minimal

Note: why would fibrosis not be available as a diagnosis in pleura?

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 112

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39258

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular
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OBSERVATIONS

* Kidney		Nephropathy	Chronic, Marked
* Larynx		Inflammation	Suppurative, Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Vacuolization Cytoplasmic	Moderate
	[Hepatodiaphragmatic Nodule TGLS = 4,6-6]		
	[Vacuolization Cytoplasmic TGLS = 7-16]		
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Lymph Node, Mediastinal		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1,2,3-13+14+17+18+19]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 113

TRT#: 2

SEX: Female

DAY ON TEST: 638

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39259

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Liver		Clear Cell Focus	
		Leukemia Mononuclear	
	Hepatocyte	Regeneration	Moderate
	[Clear Cell Focus TGLS = 1-13+14]		
	[Leukemia Mononuclear TGLS = 1-13+14]		
* Lymph Node, Mediastinal		Pigmentation	Mild
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 3-15]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-10]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear
 CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 114

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39260

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Lung	Interstitialium Alveolus	Fibrosis Infiltration Cellular Inflammation Pigmentation	Mild Histiocyte, Mild Chronic Active, Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland [Adenoma TGLS = 1-10]	Pars Distalis	Adenoma	
Pleura		Inflammation	Chronic, Mild
* Urinary Bladder [Carcinoma TGLS = 2-13+14]	Transit Epithe	Carcinoma	
* Uterus [Polyp Stromal TGLS = 2-13+14]		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 115

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39261

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolus	Pigmentation	Minimal
* Lymph Node, Bronchial		Pigmentation	Mild
* Mammary Gland	Epithelium	Hyperplasia	Minimal
* Pituitary Gland		Cyst	Marked
	Pars Distalis	Hyperplasia	Marked
	[Cyst TGLS = 1-10]		
	[Hyperplasia TGLS = 1-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 116

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39262

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 5-15]		
* Lung	Interstitial	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	[Infiltration Cellular TGLS = 3-14]		
* Mammary Gland		Fibroadenoma	
	Note: both these lesions are more aggressive than "normal" fibroadenomas, but still not classifiable as ca.		
	[Fibroadenoma TGLS = 1,2-16+17+9]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-10]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 117

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39263

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Chronic, Minimal
* Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Marked
[Leukemia Mononuclear TGLS = 5-6+14]			
* Lung	Interstitium	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-4+5]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			
* Spleen		Fibrosis	Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-16]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 117

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39263

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 118

TRT#: 2

SEX: Female

DAY ON TEST: 458

DOSE: CONTROL

DISP: Natural Death

HISTO: 39264

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
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OBSERVATIONS

* Larynx [Foreign Body TGLS = 4-2]		Foreign Body	
* Liver [Hepatodiaphragmatic Nodule TGLS = 3-13]		Hepatodiaphragmatic Nodule	
* Lymph Node, Bronchial		Pigmentation	Minimal
* Mammary Gland [Fibroadenoma TGLS = 1-14]		Fibroadenoma	
* Pituitary Gland [Adenoma TGLS = 2-10] [Hemorrhage TGLS = 2-10]	Pars Distalis	Adenoma Hemorrhage	Marked

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 119

TRT#: 2

SEX: Female

DAY ON TEST: 548

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39265

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial	* Thymus
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OBSERVATIONS

* Brain		Compression	Moderate
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 2-13]			
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Skin		Inflammation	Suppurative, Mild
[Inflammation TGLS = 3-14]			
* Stomach, Forestomach		Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 120

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39266

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-15+16]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Ovary	Follicle	Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 121

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39267

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney	* Larynx
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Esophagus	Periesoph Tiss	Inflammation	Chronic Active, Mild
* Islets, Pancreatic		Carcinoma	
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mediastinal		Pigmentation	Mild
* Mammary Gland		Carcinoma	

[Carcinoma TGLS = 1-14+15]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 122

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39268

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-14]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-10]			
* Spleen		Fibrosis	Moderate
		Leukemia Mononuclear	
[Fibrosis TGLS = 3,6-15+16]			
[Leukemia Mononuclear TGLS = 2,3,6-6+15+16]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 123

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39269

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Larynx		Foreign Body	
		Inflammation	Chronic, Minimal
* Liver		Leukemia Mononuclear	
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-16]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 124

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39270

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Note: 4 step sections, no foci found.			
* Lymph Node, Bronchial		Pigmentation	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Uterus		Polyp Stromal	

[Polyp Stromal TGLS = 2-13]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 125

TRT#: 2

SEX: Female

DAY ON TEST: 638

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39271

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Megakaryocyte, Marked
Eye	Lens	Cataract	Marked
[Cataract TGLS = 2-16]			
* Liver		Leukemia Mononuclear	
Note: early Fischer rat leukemia in liver and spleen.			
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13+14+15]			
* Pituitary Gland	Pars Distalis	Adenoma	
		Cyst	Marked
* Spleen		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

- Mammary Gland Fibroadenoma

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Cyst;Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 126

TRT#: 2

SEX: Female

DAY ON TEST: 463

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39272

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Liver		Bile Stasis	Moderate
* Lung	Interstitialium	Fibrosis	Minimal
* Lymph Node, Mediastinal		Pigmentation	Mild
* Nose		Chondroma	
[Chondroma TGLS = 4-12]			
* Pituitary Gland		Cyst	Mild
	Pars Distalis	Hyperplasia	Mild
[Cyst TGLS = 2-10]			
* Uterus		Hydrometra	Moderate

PRIMARY CAUSE OF DEATH

- Nose Chondroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 127

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39273

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mediastinal		Pigmentation	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 128

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39274

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

Blood Vessel		Inflammation	Marked
* Kidney		Nephropathy	Chronic, Mild
* Lung		Inflammation	Chronic Active, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Galactocele	Marked
	Epithelium	Hyperplasia	Moderate
[Galactocele TGLS = 2-17]			
[Hyperplasia TGLS = 2-17]			
Mesentery	Artery	Inflammation	Marked
	Fat	Necrosis	Moderate
[Inflammation TGLS = 5-19]			
[Necrosis TGLS = 1,3-16+18]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 129

TRT#: 2

SEX: Female

DAY ON TEST: 708

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39275

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-13]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 130

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39276

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Clitoral Gland		Hyperplasia	Moderate
* Kidney		Nephropathy	Chronic, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 131

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39277

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Lung		Inflammation	Chronic Active, Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland	Epithelium	Hyperplasia	Mild
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
	Nasolacrim Dct	Inflammation	Suppurative, Moderate
* Ovary		Cyst	Minimal
[Cyst TGLS = 3-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Thyroid Gland	Follicular Cel	Carcinoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 132

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39278

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

Eye [Cataract TGLS = 1-14]	Lens	Cataract	Mild
* Kidney		Nephropathy	Chronic, Minimal
* Lung	Interstitium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Moderate
* Lymph Node, Bronchial		Pigmentation	Minimal
* Nose		Foreign Body	
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 133

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39279

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
		Pigmentation	Mild
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Galactocele	Mild
[Fibroadenoma TGLS = 1-13+9]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland		Cyst	Marked
	Pars Distalis	Hyperplasia	Moderate
[Cyst TGLS = 4-10]			
[Hyperplasia TGLS = 4-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 134

TRT#: 2

SEX: Female

DAY ON TEST: 519

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Salivary Glands
* Skin	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-13]			
* Stomach, Forestomach		Ulcer	Marked
[Ulcer TGLS = 3-14]			
* Stomach, Glandular		Erosion	Marked
[Erosion TGLS = 4-15]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Stomach;Forestomach Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 134

TRT#: 2

SEX: Female

DAY ON TEST: 519

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39280

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 135

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39281

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Larynx		Inflammation	Chronic, Minimal
* Liver		Basophilic Focus	
		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Galactoceles	Marked
[Galactoceles TGLS = 2-15]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 136

TRT#: 2

SEX: Female

DAY ON TEST: 720

DOSE: CONTROL

DISP: Natural Death

HISTO: 39282

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Adrenal Medulla	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Pituitary Gland		

OBSERVATIONS

* Kidney [Dilatation TGLS = 5-7]	Pelvis	Dilatation	Marked
* Liver [Vacuolization Cytoplasmic TGLS = 1-6]		Vacuolization Cytoplasmic	Moderate
* Lung [Infiltration Cellular TGLS = 4-5]	Alveolus	Infiltration Cellular Inflammation	Histiocyte, Mild Chronic Active, Mild
Lymph Node [Histiocytic Sarcoma TGLS = 3-6]	Pancreatic	Histiocytic Sarcoma	
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Uterus [Histiocytic Sarcoma TGLS = 2-13]		Histiocytic Sarcoma	

PRIMARY CAUSE OF DEATH

- Uterus Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 137

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39283

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Heart		Cardiomyopathy	Moderate
[Cardiomyopathy TGLS = 5-13]			
* Kidney		Nephropathy	Chronic, Mild
* Larynx		Inflammation	Chronic, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver		Vacuolization Cytoplasmic	Marked
[Vacuolization Cytoplasmic TGLS = 4-6]			
* Lung	Bronchiole	Foreign Body	
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			
Skeletal Muscle		Inflammation	Chronic Active, Marked
[Inflammation TGLS = 2-14]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 138

TRT#: 2

SEX: Female

DAY ON TEST: 234

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39284

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Heart		Carcinoma	Metastatic (Mammary Gland)
* Larynx		Foreign Body	Mild
		Inflammation	Chronic, Mild
* Lung	Bronchiole	Hyperplasia	Mild
Note: inkmark near lesion considered as lung met; not clearly diff from focal hyperplasia, but has some cellular features similar to heart met.			
Lymph Node		Carcinoma	Metastatic (Mammary Gland)
		[Carcinoma TGLS = 2-14]	
* Mammary Gland		Carcinoma	Multiple
		[Carcinoma TGLS = 1-13]	
* Nose		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Marked
		[Hematopoietic Cell Proliferation TGLS = 3-6]	

PRIMARY CAUSE OF DEATH - Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 139

TRT#: 2

SEX: Female

DAY ON TEST: 698

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39285

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Chronic, Minimal
* Larynx		Inflammation	Chronic, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3,4-6+13+15]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3,4-6+13+15]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-14]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 140

TRT#: 2

SEX: Female

DAY ON TEST: 666

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39286

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mediastinal
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OBSERVATIONS

* Liver		Leukemia Mononuclear	
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
[Hyperplasia TGLS = 2-10]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-13+14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 141

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39287

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Larynx		Inflammation	Chronic, Marked
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Lung	Interstitialium	Fibrosis	Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,2-14+15]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-16]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 142

TRT#: 2

SEX: Female

DAY ON TEST: 625

DOSE: CONTROL

DISP: Natural Death

HISTO: 39288

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Islets, Pancreatic	* Kidney	* Larynx
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Liver [Angiectasis TGLS = 5,6,7-15+16+14]		Angiectasis	Moderate
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mediastinal [Carcinoma TGLS = 4-13]		Carcinoma	Metastatic (Thyroid Gland)
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland [Adenoma TGLS = 3-10]	Pars Distalis	Adenoma	
* Thyroid Gland	C Cell	Carcinoma	

Note: autolysis of thyroid and thoracic cavity masses makes determination of cell type difficult. Could also be follicular ca.
[Carcinoma TGLS = 2-3]

PRIMARY CAUSE OF DEATH

- Thyroid Gland C Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 143

TRT#: 2

SEX: Female

DAY ON TEST: 666

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39289

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-13]			
* Larynx		Inflammation	Suppurative, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]		Vacuolization Cytoplasmic	Marked
* Lung		Hemorrhage	Mild
[Hemorrhage TGLS = 1,2-5+13]		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
		Pigmentation	Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 5-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
		Foreign Body	
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-10]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 143

TRT#: 2

SEX: Female

DAY ON TEST: 666

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39289

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-6]

* Stomach, Forestomach

Ulcer

Marked

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:41

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 144

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39290

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	Skeletal Muscle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Clitoral Gland		Cyst	Marked
		Hyperplasia	Marked
[Cyst TGLS = 1-9]			
[Hyperplasia TGLS = 1-9]			
* Kidney		Nephropathy	Chronic, Mild
* Lung	Interstitium	Fibrosis	Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
		Galactocele	Marked
[Fibroadenoma TGLS = 2-16+17]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 4-9]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 145

TRT#: 2

SEX: Female

DAY ON TEST: 717

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39291

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Edema	Marked
	Interstitialium	Fibrosis	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Marked
	Bronchiole	Inflammation	Suppurative, Moderate
		Inflammation	Suppurative, Mild
	Artery	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2,3,6-13+14+5+4]		Mineralization	Marked
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-15]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 4-10]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 145

TRT#: 2

SEX: Female

DAY ON TEST: 717

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39291

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-10]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Lung Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 146

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39292

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronic, Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 5-15+14]		
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung	Interstitial	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-16]		
* Nose	Respirat Epith	Foreign Body	
		Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-10]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 147

TRT#: 2

SEX: Female

DAY ON TEST: 722

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39293

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Salivary Glands	* Skin
* Spleen	* Thymus	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx		Inflammation	Chronic, Mild
* Liver		Hepatodiaphragmatic Nodule	
		Vacuolization Cytoplasmic	Mild
		[Hepatodiaphragmatic Nodule TGLS = 4-6]	
		[Vacuolization Cytoplasmic TGLS = 3-6]	
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery			
Note: tgl 5 on slide 13 is normal mesenteric ln.			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
Pleura		Inflammation	Chronic, Minimal
* Stomach, Forestomach		Ulcer	Mild
* Stomach, Glandular		Inflammation	Suppurative, Minimal
* Thyroid Gland	Follicular Cel	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 147

TRT#: 2

SEX: Female

DAY ON TEST: 722

DOSE: CONTROL

DISP: Moribund Sacrifice

HISTO: 39293

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 1-3]

PRIMARY CAUSE OF DEATH

- Thyroid Gland Follicular Cel Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Stomach;Forestomach Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 148

TRT#: 2

SEX: Female

DAY ON TEST: 733

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39294

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-8]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-8]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-8]		Pigmentation	Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-8]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 5,6-15+16]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-14]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 149

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39295

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Liver		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
		[Hepatocellular Adenoma TGLS = 3-17]	
		[Leukemia Mononuclear TGLS = 3-17]	
* Lung	Interstitium	Fibrosis	Minimal
		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Adenoma	
		[Adenoma TGLS = 1-16+18]	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary	Follicle	Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 2-10]	
* Spleen		Accessory Spleen	
		Leukemia Mononuclear	
		[Accessory Spleen TGLS = 2-10]	
		[Leukemia Mononuclear TGLS = 2-10]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 149

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39295

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 150

TRT#: 2

SEX: Female

DAY ON TEST: 731

DOSE: CONTROL

DISP: Terminal Sacrifice

HISTO: 39296

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Larynx
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronic, Mild
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-16+17]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 301

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 4-14]		
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Galactocele	Minimal
* Ovary		Cyst	Moderate
	[Cyst TGLS = 2-13]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-10]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 302

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic Active, Minimal
* Lung		Pigmentation	Minimal
* Lymph Node, Mediastinal		Fibroadenoma	Multiple

[Fibroadenoma TGLS = 1,2-13+14+15]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 303

TRT#: 4

SEX: Female

DAY ON TEST: 712

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Moderate
	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
Note: photogenic inflammation, lots of polys			
* Liver		Vacuolization Cytoplasmic	Moderate
[Vacuolization Cytoplasmic TGLS = 3-6]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 5-13]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 304

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 39550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Hyperplasia Inflammation	Minimal Chronic, Moderate
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Granulosa Cell Tumor Benign	
[Granulosa Cell Tumor Benign TGLS = 1-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 582

DOSE: 0.5 MG/M3

DISP: Natural Death

HISTO: 39551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Clitoral Gland		Cyst	Moderate
		Hyperplasia	Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Ovary		Cyst	Mild
[Cyst TGLS = 5-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Hemorrhage	Marked
		Leukemia Mononuclear	
[Hemorrhage TGLS = 4-14]			
[Leukemia Mononuclear TGLS = 3-13]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 305

TRT#: 4

SEX: Female

DAY ON TEST: 582

DOSE: 0.5 MG/M3

DISP: Natural Death

HISTO: 39551

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Spleen Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 694

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Clitoral Gland
* Esophagus	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
		Pigmentation	Minimal
[Leukemia Mononuclear TGLS = 4-10]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi Goblet Cell, Respirat Epith	Degeneration	Hyaline, Minimal
		Hyperplasia	Mild
* Pituitary Gland		Cyst	Marked
[Cyst TGLS = 3-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Forestomach		Ulcer	Marked
[Ulcer TGLS = 4-10]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 1-10]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 306

TRT#: 4

SEX: Female

DAY ON TEST: 694

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39552

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Lymph Node;Mediastinal Leukemia Mononuclear;Stomach;Forestomach Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 307

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Natural Death

DAY ON TEST: 701

HISTO: 39553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung	

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Degeneration Foreign Body	Mild
* Mammary Gland	Epiglottis, Respirat Epith	Hyperplasia Fibroadenoma	Minimal Multiple
[Fibroadenoma TGLS = 1,2,3,6-13+14+15+17]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-16]			
* Nose	Goblet Cell, Respirat Epith	Foreign Body Hyperplasia Inflammation	Minimal Mild Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma Angiectasis	Marked
[Adenoma TGLS = 4-10]			
[Angiectasis TGLS = 4-10]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Angiectasis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 308

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular Inflammation	Histiocyte, Mild Chronic Active, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

[Adenoma TGLS = 1-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 309

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 39555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	Ear	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Islets, Pancreatic		Adenoma	
[Adenoma TGLS = 4-16]			
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Marked
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
Note: laryngeal inflammation and epithelial changes extend to caudal xs; epith changes more evident in mid and caudal xs.			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-13+15]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Ovary		Cyst	Moderate
		Inflammation	Chronic, Moderate
[Cyst TGLS = 1-14]			
[Inflammation TGLS = 1-14]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 309

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39555

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 2-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 310

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 533

HISTO: 39556

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Hemorrhage	Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Vacuolization Cytoplasmic	Marked
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Stomach, Forestomach		Ulcer	Marked

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Stomach;Forestomach Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 311

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Natural Death

DAY ON TEST: 612

HISTO: 39557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Clitoral Gland	* Esophagus	* Intestine Large, Colon	* Intestine Large, Rectum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Marked
Note: hemorrhage in olfactory bulb, probly secondary to mcl. [Hemorrhage TGLS = 6-1+15+20]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Foreign Body	Minimal
		Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal
		Inflammation	Chronic, Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6+17]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6+17]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13+14]			
* Ovary		Cyst	Marked
[Cyst TGLS = 4-18]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:42
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 311	TRT#: 4	SEX: Female	DAY ON TEST: 612
	DOSE: 0.5 MG/M3	DISP: Natural Death	HISTO: 39557

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
Skeletal Muscle		Fibrosis	Moderate
[Fibrosis TGLS = 2-19]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-16]			

PRIMARY CAUSE OF DEATH	- Brain Hemorrhage
CONTRIBUTORY CAUSE OF DEATH	- Bone Marrow Leukemia Mononuclear;Pituitary Gland Leukemia Mononuclear;Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 312

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 675

HISTO: 39558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Pancreas
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Bone Marrow		Leukemia Mononuclear	
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Liver		Leukemia Mononuclear	
* Lung	Alveolus	Alveolar/Bronchiolar Adenoma	
		Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[Alveolar/Bronchiolar Adenoma TGLS = 2-16]		
	[Leukemia Mononuclear TGLS = 2-16]		
Lymph Node	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-15]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-20]		
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-20]		
* Mammary Gland		Carcinoma	

Note: slide 14 is mammary ca arising in fibroadenoma.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 312

TRT#: 4

SEX: Female

DAY ON TEST: 675

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39558

ORGAN AND ACCOUNTABLE SITE STATUS

[Carcinoma TGLS = 1-14]

* Nose

Goblet Cell, Respirat Epith

Hyperplasia

Mild

* Ovary

Cyst

Moderate

[Cyst TGLS = 4-9]

* Pituitary Gland

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 3-10]

* Spleen

Accessory Spleen

Fibrosis

Moderate

Leukemia Mononuclear

[Accessory Spleen TGLS = 8-17]

[Fibrosis TGLS = 9-18]

[Leukemia Mononuclear TGLS = 5-19]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 313

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 717

HISTO: 39559

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Hyperplasia Metaplasia	Minimal Squamous, Mild
* Liver		Hepatodiaphragmatic Nodule Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 5-6] [Leukemia Mononuclear TGLS = 6-6]		
* Lung	Interstitial Alveolar Epith Alveolus	Fibrosis Hyperplasia Infiltration Cellular Leukemia Mononuclear	Mild Minimal Histiocyte, Mild
	[Leukemia Mononuclear TGLS = 1,2-13+4]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-10]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-10]		
* Spleen		Fibrosis Leukemia Mononuclear	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 313

TRT#: 4

SEX: Female

DAY ON TEST: 717

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39559

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibrosis TGLS = 7-14]

[Leukemia Mononuclear TGLS = 4-14]

* Stomach, Forestomach

Ulcer

Marked

[Ulcer TGLS = 8-10]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Lymph Node;Mediastinal Leukemia Mononuclear;Stomach;Forestomach Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 314

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Natural Death

DAY ON TEST: 571

HISTO: 39560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	Tooth	* Trachea	* Urinary Bladder
* Uterus			

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 1-15]			
* Larynx		Foreign Body	
		Inflammation	Chronic, Minimal
* Liver		Hepatodiaphragmatic Nodule	
Note: Apparently a herniated liver lobe tore off at or shortly before necropsy, ended up in peritoneal cavity.			
[Hepatodiaphragmatic Nodule TGLS = 3-14]			
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-13]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
	Respirat Epith	Hyperplasia	Moderate
Oral Mucosa	Pharyngeal	Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 4-12]			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 315

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 717

HISTO: 39561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
		Leukemia Mononuclear	
* Clitoral Gland		Cyst	Marked
		Hyperplasia	Moderate
	[Cyst TGLS = 7-9]		
	[Hyperplasia TGLS = 7-9]		
* Kidney		Accumulation, Hyaline Droplet	Marked
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Leukemia Mononuclear	
* Lung		Fibrosarcoma	Metastatic (Skin)
	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-14]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 5-16]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 315

TRT#: 4

SEX: Female

DAY ON TEST: 717

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39561

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 2-10]

* Skin

Fibrosarcoma

[Fibrosarcoma TGLS = 1-13+17]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-15]

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 3-10]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 316

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Lymph Node	Pancreatic	Pigmentation	Moderate
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-14]			
* Nose		Foreign Body	
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
[Foreign Body TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Skin		Inflammation	Acute, Marked
		Ulcer	Moderate
[Inflammation TGLS = 1-13]			
[Ulcer TGLS = 1-13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 317

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 710

HISTO: 39563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Lymph Node, Mediastinal		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 6-14]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-10]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3,4-13]		

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 317

TRT#: 4

SEX: Female

DAY ON TEST: 710

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39563

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 318

TRT#: 4

SEX: Female

DAY ON TEST: 408

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39564

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Brain		Hemorrhage	Marked
* Kidney		Nephropathy	Chronic, Minimal
* Larynx		Inflammation	Chronic, Minimal
* Lymph Node, Bronchial		Pigmentation	Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 3-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Brain Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 319

TRT#: 4

SEX: Female

DAY ON TEST: 571

DOSE: 0.5 MG/M3

DISP: Natural Death

HISTO: 39565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 1-13]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolus	Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 320

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 608

HISTO: 39566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Hyperplasia Metaplasia	Minimal Squamous, Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung	Alveolus	Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
[Leukemia Mononuclear TGLS = 2-6]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 6-9+15]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-14]			
* Pituitary Gland		Cyst	Marked
[Cyst TGLS = 5-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-13]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 321

TRT#: 4

SEX: Female

DAY ON TEST: 695

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic, Mild
* Liver		Basophilic Focus Leukemia Mononuclear	Multiple
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mediastinal		Angiectasis Hyperplasia	Moderate Lymphoid, Moderate
[Hyperplasia TGLS = 3-3]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia Inflammation	Mild Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-10]			
Tongue		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 1-13]			
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 321

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 695

HISTO: 39567

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 322

TRT#: 4

SEX: Female

DAY ON TEST: 652

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39568

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	Ear	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Mild
	Portal	Pigmentation	Mild
	[Hepatodiaphragmatic Nodule TGLS = 1-6]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Nasolacrim Dct	Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-10]		

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 323

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39569

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Brain		Astrocytoma Malignant	
[Astrocytoma Malignant TGLS = 3-1]			
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Inflammation	Chronic, Minimal
* Liver		Inflammation	Granulomatous, Mild
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Ovary		Inflammation	Granulomatous, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
Tongue		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 1-13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 324

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 39570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Inflammation	Chronic, Minimal
		Metaplasia	Squamous, Mild
Note: squamous metaplasia is in ventral aspect of most caudal xs of larynx.			
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 2-6]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 3-14]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
		Pigmentation	Moderate
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 324

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39570

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 1-13]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 325

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Larynx	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Liver		Clear Cell Focus	
	Bile Duct	Hyperplasia	Minimal
[Clear Cell Focus TGLS = 4-6]			
* Lung	Interstitial	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Ovary		Cyst	Moderate
[Cyst TGLS = 3-9]			
* Pituitary Gland		Cyst	Marked
[Cyst TGLS = 2-10]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 326

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Parathyroid Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 327

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver		Vacuolization Cytoplasmic	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
		Foreign Body	
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
	Nasolacrim Dct	Inflammation	Suppurative, Minimal
		Inflammation	Suppurative, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 328

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 722

HISTO: 39574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Mild Chronic, Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung	Alveolus	Infiltration Cellular Leukemia Mononuclear	Histiocyte, Minimal
* Lymph Node, Bronchial		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-8]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-8]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-15]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-8]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 1-14]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Ovary		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-14]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:42
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 328	TRT#: 4	SEX: Female	DAY ON TEST: 722
	DOSE: 0.5 MG/M3	DISP: Moribund Sacrifice	HISTO: 39574

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3,4-13]		
* Stomach, Forestomach	Ulcer	Moderate
[Ulcer TGLS = 8-15]		

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 329

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Clitoral Gland		Cyst	Marked
		Hyperplasia	Marked
[Cyst TGLS = 3-9]			
[Hyperplasia TGLS = 3-9]			
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13+14]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 330

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 667

HISTO: 39576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Astrocytoma Malignant Hemorrhage	Marked
[Astrocytoma Malignant TGLS = 3-1]			
[Hemorrhage TGLS = 3-1]			
* Larynx	Epiglottis, Respirat Epith	Hyperplasia Inflammation	Minimal Chronic, Minimal
* Liver		Basophilic Focus	Multiple
* Lung	Alveolus	Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13+14]			
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLS = 2-15]			
* Nose	Goblet Cell, Respirat Epith Respirat Epith Nasolacrim Dct	Hyperplasia Hyperplasia Inflammation Inflammation	Minimal Mild Suppurative, Minimal Suppurative, Mild
* Ovary	Follicle	Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 330

TRT#: 4

SEX: Female

DAY ON TEST: 667

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39576

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-10]

PRIMARY CAUSE OF DEATH

-

CONTRIBUTORY CAUSE OF DEATH

- Brain Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 331

TRT#: 4

SEX: Female

DAY ON TEST: 668

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Brain		Hemorrhage	Mild
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Clear Cell Focus	
		Vacuolization Cytoplasmic	Mild
[Clear Cell Focus TGLS = 4-14]			
* Lung	Interstitial	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			
* Skin		Cyst	Marked
[Cyst TGLS = 2-13]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 332

TRT#: 4

SEX: Female

DAY ON TEST: 499

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Larynx
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Necrosis	Moderate
		Vacuolization Cytoplasmic	Marked
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-13]			
* Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
[Leukemia Mononuclear TGLS = 4-6]			
* Lung		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Pigmentation	Mild
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Cyst	Marked
[Cyst TGLS = 3-9]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-14]			
* Stomach, Forestomach		Ulcer	Marked
[Ulcer TGLS = 6-15]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Stomach;Forestomach Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 333

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone		Hyperostosis	Moderate
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Foreign Body	
		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Liver	Portal	Leukemia Mononuclear	
		Pigmentation	Moderate
		Vacuolization Cytoplasmic	Marked
* Lung	Interstitial	Alveolar/Bronchiolar Adenoma	
	Alveolus	Fibrosis	Minimal
	[Alveolar/Bronchiolar Adenoma TGLS = 4-4]	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mandibular		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-10]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-10]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 333

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39579

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 334

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 39580

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Larynx		Foreign Body	
		Inflammation	Chronic, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Carcinoma	
		Fibroadenoma	
[Carcinoma TGLS = 1-13+16]			
[Fibroadenoma TGLS = 2-14+17]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-15]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Thyroid Gland	C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 335

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 717

HISTO: 39581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Pancreas	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 17-7]			
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 10-6]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-6]			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 15,16-4+13]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-9]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-9]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 14-16]			
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Moderate
[Leukemia Mononuclear TGLS = 13-15]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 335

TRT#: 4

SEX: Female

DAY ON TEST: 717

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39581

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 12-17]

* Nose Olfactory Epi Degeneration Hyaline, Minimal

* Ovary Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 6-9]

* Parathyroid Gland Hyperplasia Mild

* Pituitary Gland Pars Distalis Adenoma

[Adenoma TGLS = 11-10]

* Spleen Hemorrhage Moderate

Leukemia Mononuclear

[Hemorrhage TGLS = 9-14]

[Leukemia Mononuclear TGLS = 8-14]

* Thyroid Gland C Cell Adenoma

[Adenoma TGLS = 5-3]

* Urinary Bladder Transit Epithe Hyperplasia Mild

Leukemia Mononuclear

* Uterus Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 7-10]

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 336

TRT#: 4

SEX: Female

DAY ON TEST: 633

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear Myelofibrosis	Mild
[Leukemia Mononuclear TGLS = 4-3]			
* Heart	Ventricle	Thrombosis	Moderate
* Kidney		Nephropathy	Chronic, Mild
		Thrombosis	Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Marked
		Inflammation	Chronic, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Lung		Hemorrhage	Mild
	Alveolar Epith	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 336

TRT#: 4

SEX: Female

DAY ON TEST: 633

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39582

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-6]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 337

TRT#: 4

SEX: Female

DAY ON TEST: 366

DOSE: 0.5 MG/M3

DISP: Natural Death

HISTO: 39583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Islets, Pancreatic	* Kidney	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Larynx	

OBSERVATIONS

* Liver	Leukemia Mononuclear
* Lung	Leukemia Mononuclear
* Spleen	Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-13]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 338

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 39584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Larynx		Inflammation	Chronic, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
[Leukemia Mononuclear TGLS = 6-6]		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Respirat Epith	Hyperplasia	Moderate
* Ovary		Cyst	Mild
[Cyst TGLS = 3-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Hemorrhage	Moderate
[Hemorrhage TGLS = 5-13]		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-13]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 338

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39584

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 339

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
		Foreign Body	
	Nasolacrim Dct	Inflammation	Suppurative, Minimal
		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 340

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 39586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

Blood Vessel [Mineralization TGLS = 3-16]		Mineralization	Marked
* Larynx	Epiglottis, Respirat Epith	Degeneration Inflammation	Minimal Chronic, Minimal
* Liver [Angiectasis TGLS = 4-14] [Hepatodiaphragmatic Nodule TGLS = 1-13] [Leukemia Mononuclear TGLS = 1-13]		Angiectasis Hepatodiaphragmatic Nodule Leukemia Mononuclear	Minimal
* Lung	Alveolus	Infiltration Cellular Inflammation	Histiocyte, Mild Chronic Active, Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery [Necrosis TGLS = 3-16]	Fat	Necrosis	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Spleen [Fibrosis TGLS = 2-15] [Leukemia Mononuclear TGLS = 2-15]		Fibrosis Leukemia Mononuclear	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 340

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39586

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 341

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39587

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Mild Chronic, Minimal
* Liver		Vacuolization Cytoplasmic	Moderate
* Lung	Alveolus	Infiltration Cellular Inflammation	Histiocyte, Minimal Chronic Active, Minimal
* Lymph Node, Bronchial		Pigmentation	Mild
* Mammary Gland		Fibroadenoma Galactocele	Minimal
[Fibroadenoma TGLS = 3-13+15]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-10]			
* Skin	Pinna	Neural Crest Tumor, Benign	
[Neural Crest Tumor, Benign TGLS = 2-14]			
* Thyroid Gland	C Cell	Carcinoma	
[Carcinoma TGLS = 4-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 342

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Vacuolization Cytoplasmic	Moderate
[Vacuolization Cytoplasmic TGLS = 4-6]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Carcinoma	
[Carcinoma TGLS = 2-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 343

TRT#: 4

SEX: Female

DAY ON TEST: 731

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 1-13]			
* Nose	Olfactory Epi Goblet Cell, Respirat Epith	Degeneration Hyperplasia	Hyaline, Minimal Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 344

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Medulla		Angiectasis	Mild
* Larynx		Foreign Body	
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Liver		Clear Cell Focus	
[Clear Cell Focus TGLS = 1-6]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 345

TRT#: 4

SEX: Female

DAY ON TEST: 696

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Urinary Bladder	* Uterus		

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 3-15]			
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Mild
		Inflammation	Suppurative, Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3-13+14+15]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 5-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-10]			
* Trachea		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 346

TRT#: 4

SEX: Female

DAY ON TEST: 540

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39592

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex		Necrosis	Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Lung	Interstitium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Note: diff dx very small a/b adenoma			
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
[Hyperplasia TGLS = 1-10]			
* Skin		Keratoacanthoma	Multiple
[Keratoacanthoma TGLS = 2,3-13+14]			

PRIMARY CAUSE OF DEATH

- Skin Keratoacanthoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 347

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
Skeletal Muscle		Degeneration	Mild
[Degeneration TGLS = 1-13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 348

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx		Inflammation	Chronic, Minimal
* Liver		Clear Cell Focus	
[Clear Cell Focus TGLS = 1-13]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 349

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 0.5 MG/M3

DISP: Terminal Sacrifice

HISTO: 39595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
[Hepatodiaphragmatic Nodule TGLS = 4-6]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,5-13+14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Cyst	Moderate
[Cyst TGLS = 3-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 350

TRT#: 4

DOSE: 0.5 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 708

HISTO: 39596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-7]			
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
Lymph Node	Renal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-14]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-8]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-8]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-8]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-10]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 350

TRT#: 4

SEX: Female

DAY ON TEST: 708

DOSE: 0.5 MG/M3

DISP: Moribund Sacrifice

HISTO: 39596

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3,9-13]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 501

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Hyperplasia Inflammation Inflammation	Mild Suppurative, Mild Chronic, Mild
* Liver	Epiglottis, Respirat Epith	Metaplasia Hepatodiaphragmatic Nodule Leukemia Mononuclear	Squamous, Mild
[Hepatodiaphragmatic Nodule TGLS = 3,4-6]			
* Lung	Alveolus Alveolus	Infiltration Cellular Pigmentation Pigmentation	Histiocyte, Mild Mild Minimal
* Lymph Node, Mediastinal		Fibroadenoma	Multiple
* Mammary Gland			
[Fibroadenoma TGLS = 1,2-13+14+15]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 502

TRT#: 6

DOSE: 1.0 MG/M3

SEX: Female

DISP: Natural Death

DAY ON TEST: 433

HISTO: 39448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Pancreas	* Pituitary Gland	* Trachea

OBSERVATIONS

* Liver		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-15]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-13]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-14]			

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 503

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Clitoral Gland		Cyst	Mild
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolus	Pigmentation	Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin	Pinna	Neural Crest Tumor, Benign	
	[Neural Crest Tumor, Benign TGLS = 1-13+14]		
* Thyroid Gland	Bilateral, C Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 504

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolus	Pigmentation	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Moderate
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Ovary		Cyst	Mild

[Cyst TGLS = 2-9]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 505

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic, Mild
* Liver [Clear Cell Focus TGLS = 2-13]		Clear Cell Focus	
* Lung Mesentery [Necrosis TGLS = 3-14]	Alveolus Fat	Infiltration Cellular Necrosis	Histiocyte, Mild Moderate
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Ovary		Atrophy	Moderate
* Pituitary Gland [Adenoma TGLS = 1-10]	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 506

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Mild Mild Chronic, Minimal
* Liver	[Hepatodiaphragmatic Nodule TGLS = 2-6]	Hepatodiaphragmatic Nodule	
* Lung	Alveolar Epith Alveolus	Hyperplasia Infiltration Cellular	Minimal Histiocyte, Mild
* Lymph Node, Bronchial		Pigmentation	Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: searched wet tissue for sq mass listed as tgl 1, submitted a tissue sample (slid e 13) that consists of normal sq fat, muscle.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 507

TRT#: 6

SEX: Female

DAY ON TEST: 570

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Clitoral Gland

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Hyperplasia Inflammation	Minimal Suppurative, Minimal
* Liver		Basophilic Focus Hepatodiaphragmatic Nodule	Multiple
	[Hepatodiaphragmatic Nodule TGLS = 1-16]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 2-13+14+15+17]		
* Nose	Goblet Cell, Respirat Epith Respirat Epith	Hyperplasia Hyperplasia Inflammation	Mild Mild Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Ulcer	Moderate

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 508

TRT#: 6

SEX: Female

DAY ON TEST: 683

DOSE: 1.0 MG/M3

DISP: Natural Death

HISTO: 39454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Heart
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Brain		Hemorrhage	Mild
* Kidney	Papilla	Mineralization	Moderate
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 4-14]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Hemorrhage	Marked
[Adenoma TGLS = 1-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-13]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Pituitary Gland Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 509

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39455

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver		Clear Cell Focus	Multiple
[Clear Cell Focus TGLS = 5,6-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
	Alveolus	Pigmentation	Mild
[Infiltration Cellular TGLS = 4-13]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 510

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Larynx	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Liver		Clear Cell Focus	Multiple, Moderate
	Hepatocyte	Hepatodiaphragmatic Nodule	
		Necrosis	Moderate
	[Clear Cell Focus TGLS = 2-6+17]		
	[Hepatodiaphragmatic Nodule TGLS = 3-16]		
	[Necrosis TGLS = 2-6]		
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-13+14+15]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
* Uterus	Endometrium	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 511

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Clear Cell Focus	
[Clear Cell Focus TGLS = 3-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13+14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 512

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Inflammation	Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Galactocele	Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLS = 1-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 513

TRT#: 6

SEX: Female

DAY ON TEST: 712

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Astrocytoma Malignant	
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Liver		Clear Cell Focus	
	[Clear Cell Focus TGLS = 5-6]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Carcinoma	
	[Carcinoma TGLS = 3-13]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 4-14]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-10]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 514

TRT#: 6

DOSE: 1.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 39460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic, Minimal
* Lung	Alveolar Epith Bronchiole Alveolus Alveolus	Hyperplasia Hyperplasia Infiltration Cellular Inflammation Pigmentation	Mild Mild Histiocyte, Mild Chronic Active, Minimal Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Galactocele	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Uterus	Endometrium	Hyperplasia	Mild
[Hyperplasia TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 515

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-9+13]			
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 516

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Islets, Pancreatic		Adenoma	
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 4-13]		
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
	Alveolus	Pigmentation	Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Minimal
	Nasolacrim Dct	Inflammation	Suppurative, Mild
* Pancreas	Acinus	Atrophy	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
	[Hyperplasia TGLS = 3-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 517

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Degeneration Inflammation	Minimal Chronic, Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
* Skin		Schwannoma Malignant	
	[Schwannoma Malignant TGLS = 1,2-13]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1,2-13]		
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 4-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 518

TRT#: 6

DOSE: 1.0 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 589

HISTO: 39464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronic, Minimal
* Larynx		Inflammation	Chronic, Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Marked
	[Leukemia Mononuclear TGLS = 2-6]		
	[Vacuolization Cytoplasmic TGLS = 2-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
	Alveolus	Pigmentation	Minimal
	Note: pigment in alveoli is in PAMs.		
	Note: minimal bronchiolization; hard to differentiate from effects of leukemia.		
	Note: minimal peribronchiolar and perivascular inflamm infiltrate, difficult to differentiate from concurrent leukemia.		
* Lymph Node, Bronchial		Pigmentation	Mild
	Note: brown/gold pigment in macrophages in tbn; some clear oval to needlelike spaces in pigment. Smaller amts of pigment in pams in lung.		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 3-13]		
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 518

TRT#: 6

SEX: Female

DAY ON TEST: 589

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39464

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Hyperplasia

Moderate

[Hyperplasia TGLS = 1-10]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 1-10]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH

- Liver Leukemia Mononuclear;Liver Vacuolization Cytoplasmic;Pituitary Gland Pars Distalis Hyperplasia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 519

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39465

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2,3-13+14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 520

TRT#: 6

SEX: Female

DAY ON TEST: 707

DOSE: 1.0 MG/M3

DISP: Natural Death

HISTO: 39466

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Brain		Hemorrhage	Minimal
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-4+5]		
Lymph Node		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-13]		
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-14]		
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland		Hemorrhage	Moderate
	Pars Distalis	Hyperplasia	Moderate
	[Hemorrhage TGLS = 3-10]		
	[Hyperplasia TGLS = 3-10]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 520

TRT#: 6

SEX: Female

DAY ON TEST: 707

DOSE: 1.0 MG/M3

DISP: Natural Death

HISTO: 39466

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 5-13]		Leukemia Mononuclear	
* Stomach, Forestomach [Erosion TGLS = 7-10]		Erosion	Moderate
Tongue [Hyperkeratosis TGLS = 8-15]	Epithelium	Hyperkeratosis	Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 521

TRT#: 6

SEX: Female

DAY ON TEST: 572

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Bronchial	* Lymph Node, Mandibular
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OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration Inflammation	Minimal Chronic, Mild
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 3-13]		
* Nose	Respirat Epith	Inflammation Metaplasia	Suppurative, Marked Squamous, Moderate
* Pituitary Gland		Cyst	Mild
	[Cyst TGLS = 2-10]		
Tooth		Odontoma	
	[Odontoma TGLS = 2-10]		

PRIMARY CAUSE OF DEATH	- Tooth Odontoma
CONTRIBUTORY CAUSE OF DEATH	- Nose Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 522

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	Lymph Node	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mediastinal		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13+14]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4-15]			
* Ovary		Cyst	Mild
[Cyst TGLS = 2-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 523

TRT#: 6

SEX: Female

DAY ON TEST: 689

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Brain		Astrocytoma Malignant	
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
* Lung	Interstitium	Fibrosis	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
[Leukemia Mononuclear TGLS = 6-6]		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-15]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-14]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-10]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 523

TRT#: 6

SEX: Female

DAY ON TEST: 689

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39469

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-13]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 524

TRT#: 6

SEX: Female

DAY ON TEST: 638

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver		Vacuolization Cytoplasmic	Minimal
	[Vacuolization Cytoplasmic TGLS = 4-15]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 2-13+14+16]		
Mesentery	Fat	Necrosis	Minimal
	[Necrosis TGLS = 5-17]		
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 525

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
* Liver		Leukemia Mononuclear	
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-13]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 526

TRT#: 6

DOSE: 1.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 39472

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 3-6]		
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Bronchial		Pigmentation	Minimal
* Mammary Gland		Carcinoma	
Mesentery		Hemorrhage	Moderate
	[Hemorrhage TGLS = 1-13]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-10]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 526

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39472

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Endometrium

Hyperplasia

Mild

Polyp Stromal

[Polyp Stromal TGLS = 2-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 527

TRT#: 6

DOSE: 1.0 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 680

HISTO: 39473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
* Lung	Interstitial Alveolar Epith Alveolus	Fibrosis Hyperplasia Infiltration Cellular Leukemia Mononuclear Leukemia Mononuclear	Minimal Minimal Histiocyte, Moderate
* Lymph Node, Bronchial			
[Leukemia Mononuclear TGLS = 7-8]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-3]			
* Lymph Node, Mesenteric		Fibrosis Leukemia Mononuclear	Marked
[Fibrosis TGLS = 7-8]			
[Leukemia Mononuclear TGLS = 7-8]			
Mesentery		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-15]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 527

TRT#: 6

SEX: Female

DAY ON TEST: 680

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39473

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-10]

* Spleen

[Leukemia Mononuclear TGLS = 4-14]

Tongue

[Squamous Cell Papilloma TGLS = 1-13]

Leukemia Mononuclear

Leukemia Mononuclear

Squamous Cell Papilloma

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 528

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39474

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Hyperplasia Inflammation	Minimal Chronic, Minimal
* Lung	Alveolus	Infiltration Cellular Inflammation	Histiocyte, Mild Chronic Active, Minimal
* Mammary Gland [Fibroadenoma TGLS = 1-13+14]		Fibroadenoma	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 529

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Degeneration Inflammation	Minimal Chronic, Minimal
* Liver		Leukemia Mononuclear	
* Lung	Alveolar/Bronchiolar Adenoma	Fibrosis	Mild
	Interstitialium	Hyperplasia	Minimal
	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Infiltration Cellular	Histiocyte, Moderate
	Alveolus	Inflammation	Chronic Active, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-1]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 530

TRT#: 6

DOSE: 1.0 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 725

HISTO: 39476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1-14]			
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
Lymph Node	Iliac	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-15]			
* Nose	Respirat Epith	Inflammation	Suppurative, Minimal
		Metaplasia	Squamous, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-13]			
Tongue	Epithelium	Hyperkeratosis	Minimal
[Hyperkeratosis TGLS = 5-16]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 531

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Renal Tubule	Mineralization	Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
	[Clear Cell Focus TGLS = 4-13]		
	[Hepatodiaphragmatic Nodule TGLS = 5-6]		
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
	Alveolus	Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-15]		
Mesentery	Fat	Necrosis	Mild
	[Necrosis TGLS = 3-14]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLS = 2-10]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 532

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Larynx		Inflammation	Chronic, Minimal
* Liver		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
		Fibroadenoma	
* Mammary Gland [Fibroadenoma TGLS = 2-13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
* Pituitary Gland [Adenoma TGLS = 1-10]	Pars Distalis	Adenoma	
* Spleen [Leukemia Mononuclear TGLS = 1-10]		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 533

TRT#: 6

SEX: Female

DAY ON TEST: 661

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Mammary Gland	* Ovary	* Pancreas	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Parathyroid Gland

OBSERVATIONS

* Brain		Hemorrhage	Minimal
* Larynx		Hemorrhage	Minimal
		Inflammation	Chronic, Minimal
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver		Leukemia Mononuclear	
* Lung	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-13+14]		
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-15]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:42
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 533

TRT#: 6

SEX: Female

DAY ON TEST: 661

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39479

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach

Epithelium

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 534

TRT#: 6

SEX: Female

DAY ON TEST: 710

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Degeneration Inflammation	Mild Chronic, Mild
* Liver		Leukemia Mononuclear	
* Lung	Interstitialium Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation Leukemia Mononuclear	Mild Minimal Minimal Histiocyte, Mild Chronic Active, Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-16]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 3-10]			
* Skin	Subcut Tiss	Fibroma Hyperkeratosis	Mild
[Fibroma TGLS = 2-13+15]			
[Hyperkeratosis TGLS = 1-14]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 534

TRT#: 6

SEX: Female

DAY ON TEST: 710

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39480

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 535

TRT#: 6

SEX: Female

DAY ON TEST: 652

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Parathyroid Gland
* Spleen	* Trachea		

OBSERVATIONS

* Clitoral Gland		Histiocytic Sarcoma	
* Heart		Histiocytic Sarcoma	
* Intestine Small, Duodenum		Histiocytic Sarcoma	
* Kidney		Histiocytic Sarcoma	
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Histiocytic Sarcoma	
		Inflammation	Chronic, Minimal
* Liver		Vacuolization Cytoplasmic	Marked
* Lung	Mediastinum	Histiocytic Sarcoma	
	Alveolar Epith	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Bronchial		Histiocytic Sarcoma	
* Lymph Node, Mediastinal		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 4-10]			
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
Mesentery		Histiocytic Sarcoma	
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 3-9]			
* Pancreas		Histiocytic Sarcoma	
[Histiocytic Sarcoma TGLS = 3-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Salivary Glands		Histiocytic Sarcoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 535

TRT#: 6

SEX: Female

DAY ON TEST: 652

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39481

ORGAN AND ACCOUNTABLE SITE STATUS

[Histiocytic Sarcoma TGLS = 2-10]

* Skin	Subcut Tiss	Histiocytic Sarcoma	
* Stomach, Forestomach		Histiocytic Sarcoma	
		Ulcer	Moderate

[Histiocytic Sarcoma TGLS = 4-10]

[Ulcer TGLS = 4-10]

* Stomach, Glandular		Histiocytic Sarcoma	
----------------------	--	---------------------	--

[Histiocytic Sarcoma TGLS = 4-10]

* Thymus		Histiocytic Sarcoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild
* Urinary Bladder		Histiocytic Sarcoma	
* Uterus		Histiocytic Sarcoma	

PRIMARY CAUSE OF DEATH - Salivary Glands Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 536

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 1-7]			
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 3-13]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 537

TRT#: 6

SEX: Female

DAY ON TEST: 139

DOSE: 1.0 MG/M3

DISP: Natural Death

HISTO: 39483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	Eye
Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
Mesentery	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Necrosis	Minimal
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
		Inflammation	Chronic, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 538

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Lung	Interstitial	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Mild
Note: step sections of slide 13,found tgl 2. [Hyperplasia TGLS = 2-13]			
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-14]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 4-15]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Mild
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
[Hyperplasia TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 539

TRT#: 6

DOSE: 1.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 39485

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
Eye	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Liver		Leukemia Mononuclear	
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
		Galactocele	Minimal
[Fibroadenoma TGLS = 1-13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Ovary	Follicle	Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-10]			
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 540

TRT#: 6

DOSE: 1.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 39486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 2-13]			
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver		Clear Cell Focus	
		Hepatodiaphragmatic Nodule	
[Clear Cell Focus TGLS = 4-15]			
[Hepatodiaphragmatic Nodule TGLS = 5-6]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 2,3-13+14]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Thyroid Gland	C Cell	Adenoma	
* Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 541

TRT#: 6

SEX: Female

DAY ON TEST: 698

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Clitoral Gland		Adenoma	
* Kidney	Cortex, Renal Tubule	Necrosis	Marked
		Nephropathy	Chronic, Minimal
	Note: tubules in inner stripe falling apart, looks like autolysis but other tissues not affected?		
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver		Basophilic Focus	Multiple
* Lung	Interstitium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	[Infiltration Cellular TGLS = 2-4+5]		
* Mammary Gland		Fibroadenoma	
		Galactocele	Moderate
	[Fibroadenoma TGLS = 1-13+14+15+9]		
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 541

TRT#: 6

SEX: Female

DAY ON TEST: 698

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39487

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-10]

[Hemorrhage TGLS = 3-10]

* Spleen

Hemorrhage

Marked

Fibrosis

Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 542

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39488

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic, Minimal
* Liver		Hepatodiaphragmatic Nodule Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 4-6]		
* Lung	Interstitium Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Minimal Minimal Minimal Histiocyte, Mild Chronic Active, Minimal
	[Infiltration Cellular TGLS = 3-5]		
* Lymph Node, Bronchial		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-13]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
	[Hyperplasia TGLS = 2-10]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-10]		
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 542

TRT#: 6

SEX: Female

DAY ON TEST: 731

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39488

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 543

TRT#: 6

DOSE: 1.0 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 698

HISTO: 39489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Hyperplasia Metaplasia	Mild Squamous, Minimal
* Liver		Leukemia Mononuclear	
* Lung	Interstitialium Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Fibroadenoma	Minimal Minimal Minimal Histiocyte, Mild
* Mammary Gland [Fibroadenoma TGLS = 1-13+14+15]			
Mesentery [Necrosis TGLS = 4-16]	Fat	Necrosis	Moderate
* Ovary [Cyst TGLS = 2-9]		Cyst	Mild
* Pituitary Gland [Hyperplasia TGLS = 3-10]	Pars Distalis	Hyperplasia	Mild
* Spleen [Leukemia Mononuclear TGLS = 3-10]		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Mammary Gland Fibroadenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 544

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Degeneration Inflammation	Minimal Chronic, Minimal
* Lung	Interstitium Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Mild Mild Mild Histiocyte, Mild Chronic Active, Mild
* Lymph Node, Mediastinal Mesentery [Necrosis TGLS = 1-13]	Fat	Pigmentation Necrosis	Minimal Minimal
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Ovary		Cyst	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 545

TRT#: 6

DOSE: 1.0 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 421

HISTO: 39491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Myelofibrosis	Mild
* Liver		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
[Leukemia Mononuclear TGLS = 3-14]			
* Lung	Interstitial	Fibrosis	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Leukemia Mononuclear	
Note: fibrosis appears to be secondary to MCL more than inhaled chemical.			
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
Mesentery	Fat	Necrosis	Marked
[Necrosis TGLS = 2-13]			
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Spleen		Leukemia Mononuclear	
		Necrosis	Marked
[Leukemia Mononuclear TGLS = 1-15]			
[Necrosis TGLS = 1-15]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Uterus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-15]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 545

TRT#: 6

SEX: Female

DAY ON TEST: 421

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39491

ORGAN AND ACCOUNTABLE SITE STATUS

CONTRIBUTORY CAUSE OF DEATH

- Spleen Necrosis;Uterus Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 546

TRT#: 6

SEX: Female

DAY ON TEST: 652

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
[Leukemia Mononuclear TGLS = 2-6]		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-8]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-8]			
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-14]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-8]			
* Ovary		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-13]			
* Stomach, Glandular		Erosion	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 546

TRT#: 6

SEX: Female

DAY ON TEST: 652

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39492

ORGAN AND ACCOUNTABLE SITE STATUS

[Erosion TGLS = 5-14]

* Thyroid Gland

C Cell

Adenoma

[Adenoma TGLS = 4-3]

* Uterus

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-3]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 547

TRT#: 6

SEX: Female

DAY ON TEST: 617

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39493

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Liver		Vacuolization Cytoplasmic	Mild
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Nasolacrim Dct	Foreign Body	
		Inflammation	Suppurative, Moderate
		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-10]		

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 548

TRT#: 6

SEX: Female

DAY ON TEST: 733

DOSE: 1.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Clear Cell Focus	
		Leukemia Mononuclear	
[Clear Cell Focus TGLS = 4-6]			
* Lung	Alveolus	Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 3-9]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild
[Hyperplasia TGLS = 2-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-10]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
Tongue	Epithelium	Hyperkeratosis	Minimal
[Hyperkeratosis TGLS = 5-13]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 549

TRT#: 6

SEX: Female

DAY ON TEST: 499

DOSE: 1.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Larynx	* Liver	* Lung	* Lymph Node, Bronchial
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-14]			
Oral Mucosa	Pharyngeal	Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 7-15]			
* Uterus		Necrosis	Marked
		Polyp Stromal	
Note: Moribund condition due to hemorrhage from stromal polyp.			
[Necrosis TGLS = 1-13]			
[Polyp Stromal TGLS = 1-13]			

PRIMARY CAUSE OF DEATH

- Uterus Polyp Stromal

CONTRIBUTORY CAUSE OF DEATH

- Oral Mucosa Pharyngeal Squamous Cell Carcinoma; Uterus Necrosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 550

TRT#: 6

DOSE: 1.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 39496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Clitoral Gland		Adenoma	
[Adenoma TGLS = 2-9]			
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver	Serosa	Clear Cell Focus	
		Fibrosis	Minimal
		Leukemia Mononuclear	
[Clear Cell Focus TGLS = 2-9]			
[Leukemia Mononuclear TGLS = 2-9]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
	Bronchiole	Hyperplasia	Minimal
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 701

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39347

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-10]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 702

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 569

HISTO: 39348

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Moderate
	Renal Tubule	Vacuolization Cytoplasmic	Marked
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
		Inflammation	Suppurative, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver	Hepatocyte	Degeneration	Cystic, Mild
[Degeneration TGLS = 3,4,5-6]			
* Lung	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
* Nose	Respirat Epith	Hyperplasia	Mild
	Nasolacrim Dct	Inflammation	Suppurative, Marked
		Inflammation	Suppurative, Marked
	Respirat Epith	Ulcer	Moderate
* Ovary		Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Urinary Bladder		Sarcoma Stromal	Metastatic (Uterus)
[Sarcoma Stromal TGLS = 6-10]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 702

TRT#: 8

SEX: Female

DAY ON TEST: 569

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39348

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Sarcoma Stromal

[Sarcoma Stromal TGLS = 7-13+14]

PRIMARY CAUSE OF DEATH

- Uterus Sarcoma Stromal

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma;Urinary Bladder Sarcoma Stromal Uterus

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 703

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39349

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 2,3-13+14]		
* Lung	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Mild
	Alveolar Epith	Metaplasia	Squamous, Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Ovary		Cyst	Moderate
	[Cyst TGLS = 1-9]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 704

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 638

HISTO: 39350

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia	Mild Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 2-13]		
* Lung	Interstitium Alveolar Epith Bronchiole Alveolus Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation Pigmentation	Minimal Moderate Mild Histiocyte, Moderate Chronic Active, Mild Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 4-14]		
* Ovary		Cyst	Moderate
	[Cyst TGLS = 3-9]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-10]		

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 705

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 612

HISTO: 39351

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1-9+13+14]			
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Liver	Bile Duct	Dilatation	Marked
	Portal	Inflammation	Chronic Active, Mild
	Hepatocyte	Necrosis	Moderate
* Lung		Carcinoma	Metastatic (Clitoral Gland)
	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Mild
	Alveolar Epith	Metaplasia	Squamous, Marked
	Alveolus	Pigmentation	Mild
Note: squamous cells on sl#16 and 17 are less differentiated than sl 5 and have cytoplasmic vacuoles, a few eosinophilic droplets, dx'd as mets from clitoral gland ca.			
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 705

TRT#: 8

SEX: Female

DAY ON TEST: 612

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39351

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 8-19]

* Nose

Goblet Cell, Respirat Epith

Hyperplasia

Mild

* Spleen

Hematopoietic Cell Proliferation

Marked

[Hematopoietic Cell Proliferation TGLS = 9-18]

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 7-10]

PRIMARY CAUSE OF DEATH

- Clitoral Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 706

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39352

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

INSUFFICIENT TISSUE

* Lymph Node, Mediastinal

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration Inflammation	Minimal Chronic, Minimal
* Liver		Clear Cell Focus Hepatodiaphragmatic Nodule	
	[Clear Cell Focus TGLS = 3-14]		
	[Hepatodiaphragmatic Nodule TGLS = 3-14]		
* Lung	Interstitialium Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Mild Marked Marked Histiocyte, Moderate Chronic Active, Mild
	[Infiltration Cellular TGLS = 2-13]		
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Ovary		Inflammation	Chronic, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-10]		
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 4-15]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 706

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39352

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 707

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39353

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Clitoral Gland		Hyperplasia	Mild
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Inflammation	Chronic, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 5-13]		
* Lung		Alveolar/Bronchiolar Carcinoma	
	Interstitialium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Mild
	[Alveolar/Bronchiolar Carcinoma TGLS = 2-4]		
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 3-14]		
* Ovary		Cyst	Moderate
	[Cyst TGLS = 4-9]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-10]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 707

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39353

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 708

TRT#: 8

SEX: Female

DAY ON TEST: 440

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39354

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Kidney	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Foreign Body	
		Hyperplasia	Mild
		Inflammation	Suppurative, Moderate
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
	Note: material in alveoli is basophilic, looks like mucus, not proteinosis.		
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Mild

[Necrosis TGLS = 2-13]

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 709

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 39355

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Uterus		

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Mild
* Bone Marrow		Leukemia Mononuclear	
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 4-15]		
	[Leukemia Mononuclear TGLS = 5-6+15+17]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
Lymph Node	Renal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-19]		
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 1,2-13+14+18]		
* Ovary		Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 709

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 39355

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 8-9]		
* Pituitary Gland	Cyst	Marked
[Cyst TGLS = 3-10]		
* Spleen	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-16]		
* Urinary Bladder	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-10]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 710

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 39356

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
	Interstitium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
* Lymph Node, Bronchial		Pigmentation	Mild
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-15]		
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Ovary		Granulosa Cell Tumor Benign	
	[Granulosa Cell Tumor Benign TGLS = 3-9]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-10]		
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 2-13+14]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 711

TRT#: 8

SEX: Female

DAY ON TEST: 647

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39357

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Islets, Pancreatic	* Kidney	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum		

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith	Hyperplasia Inflammation	Mild Chronic, Minimal
* Lung	Epiglottis, Respirat Epith Alveolar Epith Bronchiole Alveolus	Metaplasia Hyperplasia Hyperplasia Infiltration Cellular	Squamous, Mild Mild Mild Histiocyte, Moderate
[Infiltration Cellular TGLS = 2-4+5]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13+14]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 712

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39358

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
	Interstitium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Pigmentation	Mild
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
		Galactocele	Minimal
	[Fibroadenoma TGLS = 1-13]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 3,5-14+15]		
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-10]		
Tooth	Peridont Tiss	Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:42
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 712

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39358

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 4-10]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 713

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39359

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 2-15]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-13+14]		
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 3-16]		
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Uterus		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 713

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 39359

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 714

TRT#: 8

SEX: Female

DAY ON TEST: 668

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39360

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mediastinal

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Moderate
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
Note: Degeneration is used in this tissue to indicate loss of cilia on resp epith cells at base of epiglottis.			
* Liver	Serosa	Angiectasis Fibrosis	Moderate Mild
	[Angiectasis TGLS = 5-16]		
	[Fibrosis TGLS = 4-15]		
* Lung	Interstitium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	Alveolus	Pigmentation	Mild
* Lymph Node, Bronchial		Pigmentation	Minimal
* Mammary Gland		Carcinoma	
	[Carcinoma TGLS = 1-13+14]		
* Nose		Foreign Body	
	Goblet Cell, Respirat Epith	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 714

TRT#: 8

SEX: Female

DAY ON TEST: 668

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39360

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland

Pars Distalis

Inflammation

Suppurative, Mild

[Adenoma TGLS = 3-10]

Adenoma

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 715

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 717

HISTO: 39361

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Thymus	* Urinary Bladder		

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
		Vacuolization Cytoplasmic	Moderate
	[Hepatodiaphragmatic Nodule TGLS = 3-6]		
* Lung	Interstitium	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Mammary Gland		Galactocele	Mild
Mesentery	Fat	Necrosis	Marked
	[Necrosis TGLS = 4-13]		
* Nose		Inflammation	Suppurative, Mild
* Pituitary Gland		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-10]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 715

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 717

HISTO: 39361

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 1-10]		Leukemia Mononuclear	
* Stomach, Forestomach	Epithelium	Hyperplasia Inflammation	Mild Suppurative, Mild
* Thyroid Gland	C Cell	Hyperplasia	Moderate
* Trachea		Foreign Body Inflammation	
* Uterus [Polyp Stromal TGLS = 2-10]		Polyp Stromal	Suppurative, Mild

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 716

TRT#: 8

SEX: Female

DAY ON TEST: 715

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39362

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Brain		Thrombosis	Moderate
* Kidney		Nephropathy	Chronic, Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Moderate
	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Moderate
* Liver		Vacuolization Cytoplasmic	Moderate
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
* Lymph Node, Mediastinal		Pigmentation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-10]		

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Brain Thrombosis

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 717

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39363

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mesenteric	* Mammary Gland	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1-9]			
* Kidney	Papilla	Mineralization	Mild
		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
* Liver		Angiectasis	Mild
Note: tgl 5 found at wet tissue recheck on 6/24/99, determined to be same tissue trimmed in at regular trimming but not recorded at that time. rar			
[Angiectasis TGLS = 5-6]			
* Lung	Interstitium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-13]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 717

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 39363

ORGAN AND ACCOUNTABLE SITE STATUS

* Ovary		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Uterus		Polyp Stromal	
[Polyp Stromal TGLS = 4-14+10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 718

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39364

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Clitoral Gland		Hyperplasia Inflammation	Moderate Chronic, Moderate
[Hyperplasia TGLS = 2-9]			
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Mild Minimal Chronic, Minimal
* Liver		Vacuolization Cytoplasmic	Minimal
* Lung	Interstitialium Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular	Minimal Moderate Moderate Histiocyte, Moderate
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Goblet Cell, Respirat Epith Nasolacrim Dct	Hyperplasia Inflammation	Minimal Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			
* Uterus	Endometrium	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 719

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 39365

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
		Inflammation	Chronic, Mild
* Liver	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
	Bile Duct	Hyperplasia	Mild
	Portal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]	Pigmentation	Moderate
* Lung	Interstitial	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
* Mammary Gland		Galactocele	Moderate
	[Galactocele TGLS = 4-13]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-10]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-10]		
* Uterus	Endometrium	Hyperplasia	Mild
	[Hyperplasia TGLS = 2-10]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 719

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39365

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 720

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39366

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic, Minimal
* Lung	Interstitium Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation Fibroadenoma	Minimal Moderate Moderate Histiocyte, Moderate Chronic Active, Minimal
* Mammary Gland [Fibroadenoma TGLS = 4-13]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia Inflammation	Mild Suppurative, Mild
* Ovary		Cyst	Mild
* Pituitary Gland [Adenoma TGLS = 1-10]	Pars Distalis	Adenoma	
* Uterus [Polyp Stromal TGLS = 3-10]		Polyp Stromal	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 721

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 39367

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
	Alveolus	Pigmentation	Mild
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13+14]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 4,5-15+16]			
* Ovary		Cyst	Mild
[Cyst TGLS = 3-9]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 722

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 39368

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Moderate
Eye [Cataract TGLS = 2-14]	Lens	Cataract	Mild
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration Inflammation	Minimal Chronic, Minimal
* Lung	Interstitial Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Minimal Moderate Moderate Histiocyte, Moderate Chronic Active, Minimal
Mesentery [Necrosis TGLS = 3-15]	Alveolar Epith Fat	Metaplasia Necrosis	Squamous, Mild Moderate
* Ovary		Cyst Hyperplasia	Marked Moderate
	Granulosa Cell		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:42
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 722

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39368

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 1-13]

* Pituitary Gland

Pars Distalis

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 723

TRT#: 8

SEX: Female

DAY ON TEST: 332

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39369

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Bone		Hyperostosis	Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Lung	Epiglottis, Respirat Epith	Metaplasia	Squamous, Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
Skeletal Muscle		Rhabdomyosarcoma	
	[Rhabdomyosarcoma TGLS = 2-13]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 1-6]		

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Rhabdomyosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 724

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Natural Death

DAY ON TEST: 597

HISTO: 39370

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia	Mild Mild
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5,6-6+13]		
* Lung	Alveolar Epith Bronchiole Alveolus	Hyperplasia Hyperplasia Infiltration Cellular Leukemia Mononuclear	Mild Mild Histiocyte, Moderate
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Ovary		Cyst	Mild
	[Cyst TGLS = 8-9]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Marked
	[Hyperplasia TGLS = 3-10]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-14]		

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 725

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 39371

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Larynx	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Lung	Interstitialium Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation Fibroadenoma	Moderate Marked Marked Histiocyte, Moderate Chronic Active, Minimal
* Mammary Gland [Fibroadenoma TGLS = 1-13+14+15]			
Mesentery [Necrosis TGLS = 3,5-16+17]	Fat	Necrosis	Moderate
* Nose	Olfactory Epi Goblet Cell, Respirat Epith	Degeneration Hyperplasia	Hyaline, Minimal Mild
* Pituitary Gland [Adenoma TGLS = 2-10]	Pars Distalis	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 726

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39372

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

Eye [Cataract TGLS = 7-18]	Lens	Cataract	Mild
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Inflammation	Chronic, Mild
* Liver [Hepatodiaphragmatic Nodule TGLS = 6-15]		Metaplasia	Squamous, Minimal
		Hepatodiaphragmatic Nodule	
* Lung [Hyperplasia TGLS = 3-5] [Metaplasia TGLS = 2-4]	Alveolar Epith Alveolus Alveolar Epith	Hyperplasia Infiltration Cellular Metaplasia	Marked Histiocyte, Moderate Squamous, Marked
Lymph Node [Ectasia TGLS = 5-17]	Iliac	Ectasia	Marked
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Skin [Cyst TGLS = 4-16]		Cyst	Moderate
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 726

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39372

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 1-13+14]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 727

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39373

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder
* Uterus			

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic, Minimal
* Lung	Interstitialium Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Mild Marked Marked Histiocyte, Marked Chronic Active, Mild
* Nose	Alveolar Epith Goblet Cell, Respirat Epith	Regeneration Hyperplasia	Moderate Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 728

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 39374

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Clitoral Gland		Cyst	Moderate
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Inflammation	Chronic, Minimal
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Liver		Clear Cell Focus	Multiple
[Clear Cell Focus TGLS = 6-6+15]			
* Lung	Interstitial	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
[Infiltration Cellular TGLS = 9-5]			
* Lymph Node, Bronchial		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
		Galactocele	Marked
[Fibroadenoma TGLS = 5-9+18]			
[Galactocele TGLS = 2,3,4,5-13+14+16+17+18]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-10]			
* Uterus	Endometrium	Hyperplasia	Moderate
		Polyp Stromal	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 728

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39374

ORGAN AND ACCOUNTABLE SITE STATUS

[Polyp Stromal TGLS = 8-10+19]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 729

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 455

HISTO: 39375

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Marked
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
* Liver		Hepatodiaphragmatic Nodule	
		Vacuolization Cytoplasmic	Marked
	[Hepatodiaphragmatic Nodule TGLS = 2-14]		
* Lung	Interstitium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
		Inflammation	Mild
	Alveolar Epith	Metaplasia	Squamous, Moderate
	Bronchiole	Metaplasia	Squamous, Mild
	[Infiltration Cellular TGLS = 3-4+5+13]		
	[Metaplasia TGLS = 4-13]		
	[Metaplasia TGLS = 4-13]		
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
* Pituitary Gland		Cyst	Mild
	Note: pituitary cyst could have contributed to moribund condition but does not appear to be lethal lesion.		
	[Cyst TGLS = 1-10]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:42
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 729	TRT#: 8	SEX: Female	DAY ON TEST: 455
	DOSE: 2.0 MG/M3	DISP: Moribund Sacrifice	HISTO: 39375

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach	Epithelium	Hyperkeratosis	Moderate
		Hyperplasia	Moderate
		Inflammation	Suppurative, Marked
		Ulcer	Moderate

PRIMARY CAUSE OF DEATH	- UNCERTAIN
CONTRIBUTORY CAUSE OF DEATH	- Lung Alveolus Infiltration Cellular;Pituitary Gland Cyst;Stomach;Forestomach Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:42

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 730

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39376

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Moderate
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Inflammation	Chronic, Minimal
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 2-13+15]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3,4-14+16+17]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 1-10]			
* Stomach, Glandular	Epithelium	Hyperplasia	Minimal
[Hyperplasia TGLS = 6-19]			
Tongue	Epithelium	Hyperplasia	Mild
[Hyperplasia TGLS = 5-18]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 731

TRT#: 8

SEX: Female

DAY ON TEST: 680

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39377

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Brain		Compression	Marked
* Kidney	Papilla	Mineralization	Mild
		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver		Vacuolization Cytoplasmic	Minimal
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Mild
* Lymph Node, Mediastinal		Pigmentation	Moderate
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 1-13+14]		
* Nose	Globet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-10]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 732

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39378

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	Lacrimal Gland	* Liver	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Ovary
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	Tissue NOS	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Minimal Chronic, Minimal
* Lung	Interstitialium Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation Fibroadenoma	Mild Marked Marked Histiocyte, Marked Chronic Active, Minimal
* Mammary Gland [Fibroadenoma TGLS = 2-13]			
Mesentery [Necrosis TGLS = 3-14]	Fat	Necrosis	Mild
* Nose	Goblet Cell, Respirat Epith	Foreign Body Hyperplasia Inflammation	Moderate Suppurative, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 733

TRT#: 8

SEX: Female

DAY ON TEST: 589

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39379

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

Blood Vessel	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
		Necrosis	Marked
Eye	Lens	Cataract	Mild
[Cataract TGLS = 1-14]			
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Lung	Interstitium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
* Ovary		Cyst	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07
Test Type: CHRONIC
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Vanadium pentoxide
CAS Number: 1314-62-1

Date Report Requested: 10/16/2014
Time Report Requested: 05:17:43
First Dose M/F: NA / NA
Lab: BNW

ANIMAL ID: 733	TRT#: 8	SEX: Female	DAY ON TEST: 589
	DOSE: 2.0 MG/M3	DISP: Moribund Sacrifice	HISTO: 39379

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
[Cyst TGLS = 2-9]			
[Leukemia Mononuclear TGLS = 2-9]			
* Skin	Hair Follicle	Atrophy	Moderate
[Atrophy TGLS = 5-15]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-13]			

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 734

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 39380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
* Liver	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
		Hepatodiaphragmatic Nodule	
		Leukemia Mononuclear	
	[Hepatodiaphragmatic Nodule TGLS = 8-18]		
	[Leukemia Mononuclear TGLS = 7-6+18]		
* Lung	Interstitium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	Multiple
	[Fibroadenoma TGLS = 3,4-13+14+15+16+19]		
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 734

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39380

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-10]

* Spleen

Leukemia Mononuclear

Necrosis

Marked

[Leukemia Mononuclear TGLS = 5-17]

[Necrosis TGLS = 6-17]

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 735

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Natural Death

DAY ON TEST: 514

HISTO: 39381

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Necrosis	Marked
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hemorrhage	Mild
		Hyperplasia	Minimal
		Inflammation	Chronic, Minimal
		Ulcer	Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-15]			
* Lung	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Mild
		Leukemia Mononuclear	
Note: Note: Focal severe epith hyperplasia in lung is tgl1; moderate bronchiolar and alveolar epithelial hyperplasia in remainder of lung sections.			
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 735

TRT#: 8

SEX: Female

DAY ON TEST: 514

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39381

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-14]

PRIMARY CAUSE OF DEATH

- Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 736

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39382

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Kidney
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Islets, Pancreatic		Hyperplasia	Mild
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
* Liver		Clear Cell Focus	
[Clear Cell Focus TGLS = 5-15]			
* Lung	Interstitial	Fibrosis	Mild
	Alveolar Epith	Hyperplasia	Marked
	Bronchiole	Hyperplasia	Marked
	Alveolus	Infiltration Cellular	Histiocyte, Marked
		Inflammation	Chronic Active, Mild
		Fibroadenoma	
* Mammary Gland			
[Fibroadenoma TGLS = 2-13+14]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 4-16]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-10]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 737

TRT#: 8

SEX: Female

DAY ON TEST: 725

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39383

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Bronchial

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Mild
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver		Vacuolization Cytoplasmic	Mild
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Moderate
		Inflammation	Suppurative, Mild
	Respirat Epith	Metaplasia	Squamous, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-10]		
* Thyroid Gland	C Cell	Adenoma	
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 2-10]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 737

TRT#: 8

SEX: Female

DAY ON TEST: 725

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39383

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 738

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 39384

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Ovary	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Inflammation	Chronic, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
		Leukemia Mononuclear	
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
		Pigmentation	Minimal
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13+14]			
* Nose	Globet Cell, Respirat Epith	Hyperplasia	Mild
	Nasolacrim Dct	Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Cyst	Mild
[Cyst TGLS = 2-10]			
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 738

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39384

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-6]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 739

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39385

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	Skeletal Muscle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Inflammation	Chronic, Mild
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 4-14]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
	[Fibroadenoma TGLS = 6-16]		
* Nose	Nasolacrim Dct	Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-10]		
Tongue	Epithelium	Hyperplasia	Moderate
	[Hyperplasia TGLS = 5-15]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 741

TRT#: 8

SEX: Female

DAY ON TEST: 731

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39387

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Mild Mild Chronic, Mild
* Liver [Clear Cell Focus TGLS = 4-14]		Clear Cell Focus	
* Lung	Interstitial Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Minimal Moderate Moderate Histiocyte, Moderate Chronic Active, Mild
* Lymph Node, Mediastinal Mesentery [Necrosis TGLS = 3-13]	Fat	Pigmentation Necrosis	Minimal Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 742

TRT#: 8

SEX: Female

DAY ON TEST: 733

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39388

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Minimal Mild Chronic, Minimal
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Lung	Interstitial Alveolar Epith Bronchiole Alveolus	Fibrosis Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Minimal Moderate Moderate Histiocyte, Moderate Chronic Active, Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Spleen		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 743

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Natural Death

DAY ON TEST: 706

HISTO: 39389

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Medulla [Pheochromocytoma Malignant TGLS = 4-13]		Pheochromocytoma Malignant	
* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Mild Mild Chronic, Mild
* Liver [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Lung [Infiltration Cellular TGLS = 1-4+5] [Leukemia Mononuclear TGLS = 1-4+5]	Alveolar Epith Bronchiole Alveolus	Hyperplasia Hyperplasia Infiltration Cellular Inflammation Leukemia Mononuclear	Moderate Moderate Histiocyte, Marked Chronic Active, Mild
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 743

TRT#: 8

SEX: Female

DAY ON TEST: 706

DOSE: 2.0 MG/M3

DISP: Natural Death

HISTO: 39389

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-10]

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 2-10]

* Uterus

Polyp Stromal

[Polyp Stromal TGLS = 5-10]

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

CONTRIBUTORY CAUSE OF DEATH

- Adrenal Medulla Pheochromocytoma Malignant;Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 744

TRT#: 8

SEX: Female

DAY ON TEST: 636

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39390

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

INSUFFICIENT TISSUE

* Lymph Node, Bronchial

OBSERVATIONS

* Kidney		Nephropathy	Chronic, Minimal
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Minimal
* Liver		Hepatodiaphragmatic Nodule	
	[Hepatodiaphragmatic Nodule TGLS = 2-13]		
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
* Lymph Node, Mediastinal		Pigmentation	Mild
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild
		Inflammation	Suppurative, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-10]		

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 745

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 733

HISTO: 39391

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lymph Node, Bronchial	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Larynx	Epiglottis, Respirat Epith Epiglottis, Respirat Epith	Degeneration Hyperplasia Inflammation	Mild Mild Chronic, Mild
* Lung	Epiglottis, Respirat Epith Alveolar Epith Alveolus	Metaplasia Hyperplasia Infiltration Cellular	Squamous, Minimal Moderate Histiocyte, Moderate
[Infiltration Cellular TGLS = 2-15]			
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-13+14]			
* Nose	Goblet Cell, Respirat Epith	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 746

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39392

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Bronchial	* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Clitoral Gland		Carcinoma	
[Carcinoma TGLS = 1-14+9]			
* Larynx	Epiglottis, Respirat Epith	Hyperplasia	Mild
	Epiglottis, Respirat Epith	Inflammation	Chronic, Mild
		Metaplasia	Squamous, Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-14+9]			
* Lung	Interstitialium	Fibrosis	Minimal
	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Minimal
[Infiltration Cellular TGLS = 2-13]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1,3-14+15]			
* Nose		Inflammation	Suppurative, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1,3-14+15]			
* Uterus	Endometrium	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 747

TRT#: 8

SEX: Female

DAY ON TEST: 653

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39393

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Bone Marrow	* Brain	* Clitoral Gland	* Esophagus
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	* Uterus		

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
		Inflammation	Chronic, Mild
* Liver		Clear Cell Focus	
		Vacuolization Cytoplasmic	Mild
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
	Alveolar Epith	Metaplasia	Squamous, Moderate
	Alveolus	Pigmentation	Minimal
* Lymph Node, Bronchial		Pigmentation	Minimal
* Lymph Node, Mediastinal		Pigmentation	Minimal
* Nose	Olfactory Epi	Degeneration	Hyaline, Minimal
	Goblet Cell, Respirat Epith	Hyperplasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 2-10]		
* Thyroid Gland	C Cell	Hyperplasia	Marked
	[Hyperplasia TGLS = 1-3]		

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 748

TRT#: 8

DOSE: 2.0 MG/M3

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 694

HISTO: 39394

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	Blood Vessel	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Bronchial
* Lymph Node, Mandibular	* Lymph Node, Mediastinal	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Marked
* Kidney		Nephropathy	Chronic, Mild
* Larynx	Epiglottis, Respirat Epith	Degeneration	Mild
	Epiglottis, Respirat Epith	Hyperplasia	Mild
		Inflammation	Chronic, Minimal
	Epiglottis, Respirat Epith	Metaplasia	Squamous, Minimal
* Liver		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-6]		
* Lung	Alveolar Epith	Hyperplasia	Mild
	Bronchiole	Hyperplasia	Mild
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
		Inflammation	Chronic Active, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 4-10]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Urinary Bladder		Papilloma	
	Note: 8 step sections, still no attachment of papilloma to bladder wall. No change in morphology; i will assume it attaches to wall.		
	[Papilloma TGLS = 3-6]		
* Uterus		Polyp Stromal	
	[Polyp Stromal TGLS = 2-10]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 748

TRT#: 8

SEX: Female

DAY ON TEST: 694

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39394

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 749

TRT#: 8

SEX: Female

DAY ON TEST: 617

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39395

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	Blood Vessel	* Bone
* Brain	* Clitoral Gland	* Esophagus	* Heart
* Intestine Large, Cecum	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Ovary
* Pancreas	* Parathyroid Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Intestine Large, Colon	Lymphoid Tiss	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-8]			
* Larynx	Epiglottis, Respirat Epith	Degeneration	Minimal
		Inflammation	Chronic, Mild
* Liver		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Lung	Alveolar Epith	Hyperplasia	Moderate
	Bronchiole	Hyperplasia	Moderate
	Alveolus	Infiltration Cellular	Histiocyte, Moderate
* Lymph Node, Bronchial		Leukemia Mononuclear	
* Lymph Node, Mandibular		Leukemia Mononuclear	
* Lymph Node, Mediastinal		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-8]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Fibroadenoma	
		Galactocele	Marked
[Fibroadenoma TGLS = 7-15]			
[Galactocele TGLS = 6-14]			
* Nose	Globet Cell, Respirat Epith	Hyperplasia	Mild
	Respirat Epith	Hyperplasia	Minimal
		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 749

TRT#: 8

SEX: Female

DAY ON TEST: 617

DOSE: 2.0 MG/M3

DISP: Moribund Sacrifice

HISTO: 39395

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland
[Cyst TGLS = 4-10]

Cyst

Marked

* Spleen
[Leukemia Mononuclear TGLS = 2,3-13]

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH - Spleen Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 61427-07

Test Type: CHRONIC

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/16/2014

Time Report Requested: 05:17:43

First Dose M/F: NA / NA

Lab: BNW

ANIMAL ID: 750

TRT#: 8

SEX: Female

DAY ON TEST: 732

DOSE: 2.0 MG/M3

DISP: Terminal Sacrifice

HISTO: 39396

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

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**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE