

Experiment Number: 61427-03

Test Type: 90-DAY

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Rat/F 344/N

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS
ABRIDGED) (a)**

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

Time Report Requested: 02:30:13

First Dose M/F: NA / NA

Lab: IIT

C Number:	C61427
Lock Date:	05/20/1992
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Both
PWG Approval Date	NONE

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P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Test Compound: Vanadium pentoxide

CAS Number: 1314-62-1

Date Report Requested: 10/23/2014

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First Dose M/F: NA / NA

Lab: IIT

F 344/N Rat MALE	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Natural Death						7
Survivors						
Terminal Sacrifice	10	10	10	10	10	3
Animals Examined Microscopically	10	10	10	10	10	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(9)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(10)	(10)
Liver	(10)	(0)	(2)	(1)	(10)	(10)
Pancreas	(10)	(0)	(0)	(0)	(10)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(10)	(9)
CARDIOVASCULAR SYSTEM						
Heart	(10)	(0)	(0)	(0)	(10)	(10)
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(10)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(10)	(10)
Parathyroid Gland	(10)	(0)	(0)	(0)	(7)	(6)
Pituitary Gland	(10)	(0)	(0)	(0)	(10)	(7)
Thyroid Gland	(10)	(0)	(0)	(0)	(10)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

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F 344/N Rat MALE	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(0)	(0)	(0)	(10)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(10)	(10)
Prostate	(10)	(0)	(0)	(0)	(10)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(10)	(10)
Testes	(10)	(0)	(0)	(0)	(10)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(10)	(10)
Lymph Node, Bronchial	(8)	(0)	(0)	(0)	(9)	(5)
Lymph Node, Mandibular	(10)	(0)	(0)	(0)	(10)	(8)
Lymph Node, Mediastinal	(10)	(0)	(4)	(1)	(9)	(7)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(10)	(10)
Spleen	(10)	(0)	(0)	(0)	(10)	(10)
Thymus	(10)	(0)	(0)	(0)	(10)	(9)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(7)	(8)
Skin	(10)	(0)	(0)	(0)	(10)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(10)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(1)	(10)	(10)
RESPIRATORY SYSTEM						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)

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Lab: IIT

F 344/N Rat MALE	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Trachea	(10)	(0)	(0)	(0)	(10)	(10)
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(10)	(10)
Urinary Bladder	(10)	(0)	(0)	(0)	(10)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion

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First Dose M/F: NA / NA
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F 344/N Rat MALE	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
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Tumor Summary for MALE

Total Animals with Primary Neoplasms (b)
Total Primary Neoplasms

Total Animals with Benign Neoplasms
Total Benign Neoplasms

Total Animals with Malignant Neoplasms
Total Malignant Neoplasms

Total Animals with Metastatic Neoplasms
Total Metastatic Neoplasms

**Total Animals with Malignant Neoplasms
Uncertain Primary Site**

**Total Animals with Neoplasms Uncertain -
Benign or Malignant**
Total Uncertain Neoplasms

END OF MALE DATA

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

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Test Compound: Vanadium pentoxide

Time Report Requested: 02:30:13

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 1314-62-1

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: IIT

F 344/N Rat FEMALE	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice						1
Natural Death						2
Survivors						
Terminal Sacrifice	10	10	10	10	10	7
Animals Examined Microscopically	10	10	10	10	10	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(10)	(10)
Liver	(10)	(1)	(2)	(1)	(10)	(10)
Pancreas	(10)	(0)	(1)	(0)	(10)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(10)	(10)
CARDIOVASCULAR SYSTEM						
Heart	(10)	(0)	(0)	(0)	(10)	(10)
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(10)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(10)	(10)
Parathyroid Gland	(7)	(0)	(0)	(0)	(2)	(9)
Pituitary Gland	(10)	(0)	(0)	(0)	(10)	(9)

a - Number of animals examined microscopically at site and number of animals with lesion

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F 344/N Rat FEMALE	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Thyroid Gland	(10)	(0)	(0)	(0)	(10)	(10)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(0)	(0)	(0)	(10)	(10)
Ovary	(10)	(1)	(0)	(0)	(10)	(10)
Uterus	(10)	(0)	(0)	(0)	(10)	(10)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(10)	(10)
Lymph Node, Bronchial	(10)	(0)	(0)	(0)	(10)	(9)
Lymph Node, Mandibular	(10)	(1)	(1)	(1)	(10)	(8)
Lymph Node, Mediastinal	(8)	(1)	(2)	(0)	(10)	(7)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(10)	(10)
Spleen	(10)	(0)	(0)	(0)	(10)	(10)
Thymus	(10)	(0)	(0)	(0)	(10)	(9)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(10)	(9)
Skin	(10)	(0)	(0)	(0)	(10)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(10)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(10)	(10)
RESPIRATORY SYSTEM						
Larynx	(10)	(10)	(10)	(10)	(9)	(10)
Lung	(10)	(10)	(10)	(10)	(10)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically

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Lab: IIT

F 344/N Rat FEMALE	CONTROL	1.00 MG/M3	2.00 MG/M3	4.00 MG/M3	8.00 MG/M3	16.00 MG/M3
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Trachea	(10)	(0)	(0)	(0)	(10)	(10)
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(10)	(10)
Urinary Bladder	(10)	(0)	(0)	(0)	(7)	(10)

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

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First Dose M/F: NA / NA

Lab: IIT

F 344/N Rat FEMALE

CONTROL

1.00 MG/M3

2.00 MG/M3

4.00 MG/M3

8.00 MG/M3

16.00 MG/M3

Tumor Summary for FEMALE

Total Animals with Primary Neoplasms (b)

Total Primary Neoplasms

Total Animals with Benign Neoplasms

Total Benign Neoplasms

Total Animals with Malignant Neoplasms

Total Malignant Neoplasms

Total Animals with Metastatic Neoplasms

Total Metastatic Neoplasms

Total Animals with Malignant Neoplasms

Uncertain Primary Site

Total Animals with Neoplasms Uncertain -

Benign or Malignant

Total Uncertain Neoplasms

**** END OF REPORT ****

a - Number of animals examined microscopically at site and number of animals with lesion

b - Primary tumors: all tumors except metastatic tumors

* Number of animals with any tissue examined microscopically