| Experiment Number: 20601 - 03 | P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a) | Date Report Requested: 10/15/2014 |
|--|--|-------------------------------------|
| Test Type: CHRONIC | Antimony trioxide | Time Report Requested: 14:18:25 |
| Route: RESPIRATORY EXPOSURE WHOLE BODY | CAS Number: 1309-64-4 | First Dose M/F: 09/22/08 / 09/22/08 |
| Species/Strain: RATS/Wistar Han | | Lab: BNW |

F1_53 Wk. SSAC_RE

| NTP Study Number: | C20601 |
|----------------------|-------------|
| Lock Date: | 06/13/2011 |
| Cage Range: | ALL |
| Date Range: | ALL |
| Reasons For Removal: | 25017 SSAC |
| Removal Date Range: | ALL |
| Treatment Groups: | Include ALL |
| Study Gender: | Both |
| TDMSE Version: | 3.0.2.2_002 |
| PWG Approval Date: | NONE |

| Experiment Number: 20601 - 03 Test Type: CHRONIC Route: RESPIRATORY EXPOSURE WHOLE BODY Species/Strain: RATS/Wistar Han | P03: INCIDENCE R | Date Report Requested: 10/15/2014 Time Report Requested: 14:18:25 First Dose M/F: 09/22/08 / 09/22/08 Lab: BNW | | | |
|--|------------------|---|----------|----------|--|
| Wistar Han RATS MALE | Control | 3 mg/m3 | 10 mg/m3 | 30 mg/m3 | |
| Disposition Summary | | | | | |
| Animals Initially In Study Scheduled Sacrifice Early Deaths Survivors | 60 10 | 60 10 | 60 10 | 60 10 | |
| Animals Examined Microscopically | 10 | 10 | 10 | 10 | |
| ALIMENTARY SYSTEM | | | | | |
| Esophagus | (10) | (10) | (10) | (10) | |
| Intestine Large, Cecum | (10) | (10) | (10) | (10) | |
| Intestine Large, Colon | (10) | (10) | (10) | (10) | |
| Intestine Large, Rectum | (10) | (9) | (10) | (10) | |
| Intestine Small, Duodenum | (10) | (10) | (10) | (10) | |
| Intestine Small, Ileum | (10) | (10) | (10) | (10) | |
| Intestine Small, Jejunum | (10) | (10) | (10) | (10) | |
| Liver | (10) | (10) | (10) | (10) | |
| Congestion | | 1 (10%) | | | |
| Pancreas | (10) | (10) | (10) | (10) | |
| Atrophy | 3 (30%) | 2 (20%) | 2 (20%) | | |
| Inflammation, Chronic Active | 3 (30%) | 1 (10%) | 1 (10%) | | |
| Arteriole, Inflammation, Chronic Active | (| (1.5) | 1 (10%) | (1-2) | |
| Salivary Glands | (10) | (10) | (10) | (10) | |
| Stomach, Forestomach | (10) | (10) | (10) | (10) | |
| Ulcer | 1 (10%) | (1.5) | (4-5) | (1-2) | |
| Stomach, Glandular | (10) | (10) | (10) | (10) | |
| Inflammation, Chronic Active | 1 (10%) | | | 2 (20%) | |

CARDIOVASCULAR SYSTEM

| Blood Vessel | (10) | (10) | (10) | (10) | |
|----------------|---------|---------|---------|---------|--|
| Heart | (10) | (10) | (10) | (10) | |
| Cardiomyopathy | 3 (30%) | 2 (20%) | 5 (50%) | 2 (20%) | |

| Experiment Number: 20601 - 03 | P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a) |
|--|--|
| Test Type: CHRONIC | Antimony trioxide |
| Route: RESPIRATORY EXPOSURE WHOLE BODY | CAS Number: 1309-64-4 |
| Species/Strain: RATS/Wistar Han | |

Date Report Requested: 10/15/2014 Time Report Requested: 14:18:25 First Dose M/F: 09/22/08 / 09/22/08 Lab: BNW

| Wistar Han RATS MALE | Control | 3 mg/m3 | 10 mg/m3 | 30 mg/m3 | |
|---|-------------------------|-------------------------|--------------|--------------|--|
| ENDOCRINE SYSTEM | | | | | |
| Adrenal Cortex | (10) | (10) | (10) | (10) | |
| Hyperplasia | 1 (10%) | 3 (30%) | 2 (20%) | 3 (30%) | |
| Adrenal Medulla | (10) | (10) | (9) | (10) | |
| Hypertrophy | 1 (10%) | | | | |
| Islets, Pancreatic | (10) | (10) | (10) | (10) | |
| Parathyroid Gland | (10) | (10) | (9) | (8) | |
| Pituitary Gland | (10) | (10) | (10) | (10) | |
| Pars Distalis, Hyperplasia | 1 (10%) | | | | |
| Thyroid Gland | (10) | (10) | (10) | (10) | |
| Hyperplasia, Squamous | | 1 (10%) | | | |
| GENITAL SYSTEM | | | | | |
| Epididymis | (10) | (10) | (10) | (10) | |
| Preputial Gland | (10) | (10) | (10) | (9) | |
| Inflammation, Chronic Active | 4 (40%) | 2 (20%) | 6 (60%) | 3 (33%) | |
| Prostate | (10) | (10) | (10) | (10) | |
| | | (10) | (10) | | |
| Inflammation Suppurative | 3 (30%) | | | 1 (10%) | |
| Inflammation, Suppurative | 3 (30%) | 1 (10%) | | 1 (10%) | |
| Epithelium, Hyperplasia | | 1 (10%) (10) | (10) | | |
| Epithelium, Hyperplasia Seminal Vesicle | (10) | (10) | (10) (10) | (10) | |
| Epithelium, Hyperplasia | | | (10) (10) | | |
| Epithelium, Hyperplasia Seminal Vesicle Testes | (10) (10) | (10) (10) | | (10) | |
| Epithelium, Hyperplasia Seminal Vesicle Testes Germinal Epithelium, Degeneration | (10) (10) 2 (20%) | (10) (10) 2 (20%) | (10) | (10) (10) | |
| Epithelium, Hyperplasia Seminal Vesicle Testes Germinal Epithelium, Degeneration | (10) (10) | (10) (10) | | (10) | |

| Experiment Number: 20601 - 03 Test Type: CHRONIC Route: RESPIRATORY EXPOSURE WHOLE BODY Species/Strain: RATS/Wistar Han | P03: INCIDENCE R | ATES OF NON-NEOP Antimon CAS Numbe | Date Report Requested: 10/15/2014 Time Report Requested: 14:18:25 First Dose M/F: 09/22/08 / 09/22/08 Lab: BNW | | |
|---|--|--|---|---|--|
| Wistar Han RATS MALE | Control | 3 mg/m3 | 10 mg/m3 | 30 mg/m3 | |
| Hyperplasia, Lymphoid Lymph Node, Mandibular Lymph Node, Mediastinal Foreign Body Hyperplasia, Lymphoid Pigmentation Lymph Node, Mesenteric Spleen Hematopoietic Cell Proliferation Thymus | (10) (10) 5 (50%) (10) (10) 2 (20%) (10) | 2 (25%) (9) (8) 8 (100%) 2 (25%) 5 (63%) (10) (10) 5 (50%) (10) | 5 (50%) (9) (10) 6 (60%) 6 (60%) 8 (80%) (10) (10) 2 (20%) (10) | 2 (20%) (8) (9) 6 (67%) 3 (33%) 5 (56%) (10) (10) 4 (40%) (10) | |
| INTEGUMENTARY SYSTEM Mammary Gland Skin Fibrosis | (4) (10) | (1) (10) | (1) (10) 1 (10%) | (3) (10) | |
| MUSCULOSKELETAL SYSTEM | | | | | |
| Bone | (10) | (10) | (10) | (10) | |
| NERVOUS SYSTEM | | | | | |
| Brain | (10) | (10) | (10) | (10) | |
| RESPIRATORY SYSTEM | | | | | |
| Larynx Foreign Body Infiltration Cellular, Lymphocyte Lung Fibrosis Foreign Body | (10) 1 (10%) (10) | (10) 10 (100%) (10) 10 (100%) 10 (100%) | (10) 10 (100%) (10) 10 (100%) 10 (100%) | (10) 10 (100%) (10) 10 (100%) 10 (100%) | |

Experiment Number: 20601 - 03 Test Type: CHRONIC Route: RESPIRATORY EXPOSURE WHOLE BODY Species/Strain: RATS/Wistar Han

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Antimony trioxide

CAS Number: 1309-64-4

Date Report Requested: 10/15/2014 Time Report Requested: 14:18:25 First Dose M/F: 09/22/08 / 09/22/08 Lab: BNW

| Wistar Han RATS MALE | Control | 3 mg/m3 | 10 mg/m3 | 30 mg/m3 | |
|--|--------------------|-----------|-----------|---------------------------------------|--|
| Inflammation, Chronic Active | 1 (10%) | 10 (100%) | 10 (100%) | 10 (100%) | |
| Metaplasia, Osseous | | | 1 (10%) | | |
| Proteinosis | | 9 (90%) | 10 (100%) | 10 (100%) | |
| Alveolar Epithelium, Hyperplasia | | 10 (100%) | 10 (100%) | 10 (100%) | |
| Alveolus, Inflammation, Suppurative | | 1 (10%) | 2 (20%) | 2 (20%) | |
| Bronchiole, Epithelium, Hyperplasia | | 5 (50%) | 5 (50%) | 6 (60%) | |
| Perivascular, Infiltration Cellular, Lymphocyte | | 4 (40%) | 4 (40%) | 3 (30%) | |
| Nose | (10) | (10) | (10) | (10) | |
| Foreign Body | | | 1 (10%) | 9 (90%) | |
| Inflammation, Suppurative | | 1 (10%) | | 1 (10%) | |
| Glands, Respiratory Epithelium, Cyst | | | 1 (10%) | , , , , , , , , , , , , , , , , , , , | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 3 (30%) | 1 (10%) | 4 (40%) | 2 (20%) | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | 2 (20%) | | | | |
| Respiratory Epithelium, Hyperplasia | | | 1 (10%) | 2 (20%) | |
| Trachea | (10) | (10) | (10) | (10) | |
| Foreign Body | | 8 (80%) | 9 (90%) | 10 (100%) | |
| Infiltration Cellular, Polymorphonuclear | | | | 1 (10%) | |
| SPECIAL SENSES SYSTEM | | | | | |
| Eye | (10) | (10) | (10) | (10) | |
| Lens, Degeneration | (10) | (10) | 1 (10%) | (10) | |
| Retina, Atrophy | 2 (20%) | 1 (10%) | 1 (1070) | | |
| Harderian Gland | (10) | (10) | (10) | (10) | |
| URINARY SYSTEM | | | | | |
| Kidney | (10) | (10) | (10) | (10) | |
| Nephropathy | 6 (60%) | 3 (30%) | 4 (40%) | 5 (50%) | |
| Pelvis, Dilatation | 6 (60%) 1 (10%) | 3 (30%) | 4 (40%) | 5 (50%) | |
| | 1 (10%) | 1 (100/) | | | |
| Pelvis, Inflammation, Chronic Active | (4.0) | 1 (10%) | (40) | (10) | |
| Urinary Bladder | (10) | (10) | (10) | (10) | |
| Calculus Gross Observation | | | 3 (30%) | 2 (20%) | |

| Experiment Number: 20601 - 03 Test Type: CHRONIC Route: RESPIRATORY EXPOSURE WHOLE BODY | P03: INCIDENCE RA | ATES OF NON-NEOPI Antimony CAS Numbe | Date Report Requested: 10/15/2014 Time Report Requested: 14:18:25 First Dose M/F: 09/22/08 / 09/22/08 | | |
|---|-------------------|--|---|----------|----------|
| Species/Strain: RATS/Wistar Han | | | | | Lab: BNW |
| Wistar Han RATS MALE | Control | 3 mg/m3 | 10 mg/m3 | 30 mg/m3 | |
| | | | | | |

*** END OF MALE ***

| Test Type: CHRONIC Route: RESPIRATORY EXPOSURE WHOLE BODY Species/Strain: RATS/Wistar Han | | Antimon CAS Numbe | Time Report Requested: 14:18:25 First Dose M/F: 09/22/08 / 09/22/08 Lab: BNW | | |
|---|---------|----------------------|--|----------|--|
| Wistar Han RATS FEMALE | Control | 3 mg/m3 | 10 mg/m3 | 30 mg/m3 | |
| Disposition Summary | | | | | |
| Animals Initially In Study | 60 | 60 | 60 | 60 | |
| Scheduled Sacrifice Early Deaths Survivors | 10 | 10 | 10 | 10 | |
| Animals Examined Microscopically | 10 | 10 | 10 | 10 | |
| ALIMENTARY SYSTEM | | | | | |
| Esophagus | (10) | (10) | (9) | (10) | |
| Intestine Large, Cecum | (10) | (10) | (10) | (10) | |
| Intestine Large, Colon | (10) | (10) | (10) | (10) | |
| Intestine Large, Rectum | (10) | (10) | (10) | (10) | |
| Intestine Small, Duodenum | (10) | (10) | (10) | (10) | |
| Intestine Small, Ileum | (10) | (10) | (10) | (10) | |
| Intestine Small, Jejunum | (10) | (10) | (10) | (10) | |
| Liver | (10) | (10) | (10) | (10) | |
| Basophilic Focus | 1 (10%) | | | | |
| Hematopoietic Cell Proliferation | 1 (10%) | | | | |
| Hepatodiaphragmatic Nodule | 1 (10%) | | | | |
| Infiltration Cellular, Histiocyte | | | 1 (10%) | | |
| Pigmentation, Hemosiderin | | | 1 (10%) | | |
| Pancreas | (10) | (10) | (10) | (10) | |
| Atrophy | | | 1 (10%) | 2 (20%) | |
| Basophilic Focus | | 1 (10%) | | | |
| Inflammation, Chronic Active | | | 1 (10%) | 1 (10%) | |
| Artery, Fibrosis | | 1 (10%) | | | |
| Salivary Glands | (10) | (10) | (10) | (10) | |
| Stomach, Forestomach | (10) | (10) | (10) | (10) | |
| Stomach, Glandular | (10) | (10) | (10) | (10) | |

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Date Report Requested: 10/15/2014

| Blood Vessel | (10) | (10) | (10) | (10) |
|--------------|------|------|------|------|
| | | | | |

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

Experiment Number: 20601 - 03

| Experiment Number: 20601 - 03 Test Type: CHRONIC Route: RESPIRATORY EXPOSURE WHOLE BODY Species/Strain: RATS/Wistar Han | P03: INCIDENCE R | Date Report Requested: 10/15/2014 Time Report Requested: 14:18:25 First Dose M/F: 09/22/08 / 09/22/08 Lab: BNW | | | |
|--|------------------|---|----------|----------|--|
| Wistar Han RATS FEMALE | Control | 3 mg/m3 | 10 mg/m3 | 30 mg/m3 | |
| Heart | (10) | (10) | (10) | (10) | |
| Cardiomyopathy | | 3 (30%) | | 1 (10%) | |
| Mineralization | 1 (10%) | | | | |
| ENDOCRINE SYSTEM | | | | | |
| Adrenal Cortex | (10) | (10) | (10) | (10) | |
| Hyperplasia | | 1 (10%) | 1 (10%) | 1 (10%) | |
| Adrenal Medulla | (10) | (10) | (10) | (10) | |
| Islets, Pancreatic | (10) | (10) | (10) | (10) | |
| Parathyroid Gland | (10) | (8) | (8) | (10) | |
| Pituitary Gland | (10) | (10) | (10) | (10) | |
| Pars Distalis, Hyperplasia | 2 (20%) | 2 (20%) | | 1 (10%) | |
| Thyroid Gland | (10) | (10) | (10) | (10) | |
| C-cell, Hyperplasia | | | | 1 (10%) | |
| GENERAL BODY SYSTEM | | | | | |
| None | | | | | |
| GENITAL SYSTEM | | | | | |
| Clitoral Gland | (10) | (10) | (10) | (10) | |
| Inflammation, Chronic Active | 4 (40%) | 3 (30%) | 3 (30%) | 1 (10%) | |
| Ovary | (10) | (10) | (10) | (10) | |
| Cyst | 2 (20%) | 1 (10%) | 4 (40%) | | |
| Uterus | (10) | (10) | (10) | (10) | |
| Dilatation | | 1 (10%) | | | |
| Endometrial Glands, Metaplasia, Squamous | | | 1 (10%) | 1 (10%) | |
| HEMATOPOIETIC SYSTEM | | | | | |
| Bone Marrow | (10) | (10) | (10) | (10) | |

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

| Experiment Number: 20601 - 03 | P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a) | Date Rep |
|--|--|-----------|
| Test Type: CHRONIC | Antimony trioxide | Time Rep |
| Route: RESPIRATORY EXPOSURE WHOLE BODY | CAS Number: 1309-64-4 | First Dos |
| Species/Strain: RATS/Wistar Han | | Lab: BN\ |

| Date Report Requested: 10/15/2014 | | | | | |
|-------------------------------------|--|--|--|--|--|
| Time Report Requested: 14:18:25 | | | | | |
| First Dose M/F: 09/22/08 / 09/22/08 | | | | | |
| Lab: BNW | | | | | |

| Wistar Han RATS FEMALE | Control | 3 mg/m3 | 10 mg/m3 | 30 mg/m3 | |
|----------------------------------|---------|----------|---------------------------------------|----------|--|
| Hyperplasia | 1 (10%) | 1 (10%) | 3 (30%) | | |
| Lymph Node, Bronchial | (7) | (8) | (9) | (5) | |
| Foreign Body | | 7 (88%) | 9 (100%) | 4 (80%) | |
| Hyperplasia, Lymphoid | | 4 (50%) | 2 (22%) | 1 (20%) | |
| Pigmentation | | | | 1 (20%) | |
| Lymph Node, Mandibular | (10) | (10) | (10) | (8) | |
| Lymph Node, Mediastinal | (10) | (9) | (10) | (10) | |
| Foreign Body | | 9 (100%) | 5 (50%) | 6 (60%) | |
| Hyperplasia, Lymphoid | | 8 (89%) | · · · | 3 (30%) | |
| Pigmentation | 8 (80%) | 8 (89%) | 8 (80%) | 8 (80%) | |
| Lymph Node, Mesenteric | (10) | (10) | (10) | (10) | |
| Spleen | (10) | (10) | (10) | (10) | |
| Hematopoietic Cell Proliferation | 4 (40%) | 6 (60%) | 6 (60%) | 7 (70%) | |
| Thymus | (10) | (10) | (10) | (10) | |
| Cyst | 1 (10%) | | 2 (20%) | | |
| Hyperplasia, Squamous | × , | 1 (10%) | , , , , , , , , , , , , , , , , , , , | 1 (10%) | |
| NTEGUMENTARY SYSTEM | | | | | |
| Mammary Gland | (10) | (10) | (10) | (10) | |
| Skin | (10) | (10) | (10) | (10) | |
| Cyst, Squamous | 1 (10%) | | | | |
| USCULOSKELETAL SYSTEM | | | | | |
| Bone | (10) | (10) | (10) | (10) | |
| | () | | (/ | (·-/ | |
| IERVOUS SYSTEM | | | | | |
| Brain | (10) | (10) | (10) | (10) | |

RESPIRATORY SYSTEM

Experiment Number: 20601 - 03 Test Type: CHRONIC Route: RESPIRATORY EXPOSURE WHOLE BODY Species/Strain: RATS/Wistar Han

P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)

Antimony trioxide

CAS Number: 1309-64-4

Date Report Requested: 10/15/2014 Time Report Requested: 14:18:25 First Dose M/F: 09/22/08 / 09/22/08 Lab: BNW

| Vistar Han RATS FEMALE | Control | 3 mg/m3 | 10 mg/m3 | 30 mg/m3 | |
|--|---------|-----------|-----------|-----------|--|
| Larynx | (10) | (10) | (10) | (10) | |
| Foreign Body | | 10 (100%) | 10 (100%) | 10 (100%) | |
| Lung | (10) | (10) | (10) | (10) | |
| Fibrosis | | 10 (100%) | 10 (100%) | 10 (100%) | |
| Foreign Body | | 10 (100%) | 10 (100%) | 10 (100%) | |
| Hemorrhage | | | 1 (10%) | 1 (10%) | |
| Inflammation, Chronic Active | 2 (20%) | 10 (100%) | 10 (100%) | 10 (100%) | |
| Proteinosis | | 10 (100%) | 10 (100%) | 10 (100%) | |
| Alveolar Epithelium, Hyperplasia | | 10 (100%) | 10 (100%) | 10 (100%) | |
| Alveolus, Inflammation, Suppurative | | 1 (10%) | | 3 (30%) | |
| Bronchiole, Epithelium, Hyperplasia | | 1 (10%) | | 3 (30%) | |
| Perivascular, Infiltration Cellular, Lymphocyte | | 4 (40%) | 5 (50%) | 3 (30%) | |
| Nose | (10) | (10) | (10) | (10) | |
| Foreign Body | | | . , | 4 (40%) | |
| Metaplasia, Mucous | | | | 1 (10%) | |
| Olfactory Epithelium, Accumulation, Hyaline Droplet | 2 (20%) | 2 (20%) | 1 (10%) | 2 (20%) | |
| Respiratory Epithelium, Accumulation, Hyaline Droplet | | 1 (10%) | | 1 (10%) | |
| Respiratory Epithelium, Hyperplasia | | 1 (10%) | | 2 (20%) | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | 1 (10%) | |
| Trachea | (10) | (10) | (10) | (10) | |
| Foreign Body | | 6 (60%) | 10 (100%) | 10 (100%) | |
| SPECIAL SENSES SYSTEM | | | | | |
| Eye | (10) | (10) | (10) | (10) | |
| Lens, Degeneration | | 1 (10%) | | | |
| Retina, Atrophy | 1 (10%) | . , | 1 (10%) | 1 (10%) | |
| Harderian Gland | (10) | (10) | (10) | (10) | |
| | (-/ | (-) | (-) | (-) | |
| JRINARY SYSTEM | | | | | |
| Kidney | (10) | (10) | (10) | (10) | |
| Calculus Micro Observation Only | | 1 (10%) | 1 (10%) | | |

| | Antimon CAS Numbe | Date Report Requested: 10/15/2014 Time Report Requested: 14:18:25 First Dose M/F: 09/22/08 / 09/22/08 Lab: BNW | | |
|---------|----------------------|---|--|---|
| Control | 3 mg/m3 | 10 mg/m3 | 30 mg/m3 | |
| (10) | 2 (20%) | 1 (10%) | 2 (20%) 1 (10%) (10) | |
| | Control (10) | CAS Number Control 3 mg/m3 2 (20%) | CAS Number: 1309-64-4 Control 3 mg/m3 10 mg/m3 2 (20%) 1 (10%) | CAS Number: 1309-64-4 Control 3 mg/m3 10 mg/m3 30 mg/m3 2 (20%) 1 (10%) 2 (20%) 1 (10%) |

*** END OF REPORT ***