

Experiment Number: 96014 - 06

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH
AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 07/05/2012

Test Type: CHRONIC

Water disinfection byproducts (Bromodichloroacetic acid)

Time Report Requested: 09:41:46

Route: DOSED WATER

CAS Number: 71133-14-7

First Dose M/F: 09/26/06 / 09/25/06

Species/Strain: MICE/B6C3F1

Lab: BAT

F1_Rev.1_M3

NTP Study Number: C96014B
Lock Date: 09/09/2009
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 2.6.0.0_007
PWG Approval Date: 02/02/2012

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Species/Strain: MICE/B6C3F1

Lab: BAT

| B6C3F1 MICE MALE | 0 mg/L | 250 mg/L | 500 mg/L | 1000 mg/L |
|------------------|--------|----------|----------|-----------|
|------------------|--------|----------|----------|-----------|

Disposition Summary

| | | | | |
|---|-----------|-----------|-----------|-----------|
| Animals Initially In Study | 66 | 66 | 66 | 66 |
| Scheduled Sacrifice | 16 | 16 | 16 | 15 |
| Early Deaths | | | | |
| Moribund Sacrifice | 15 | 14 | 27 | 27 |
| Natural Death | 10 | 15 | 10 | 14 |
| Survivors | | | | |
| Terminal Sacrifice | 25 | 21 | 12 | 10 |
| Missing | | | 1 | |
| Animals Examined Microscopically | 50 | 50 | 49 | 51 |

ALIMENTARY SYSTEM

| | | | | |
|--------------------------------------|---------|---------|---------|---------|
| Esophagus | (50) | (50) | (49) | (51) |
| Gallbladder | (48) | (49) | (48) | (47) |
| Intestine Large, Cecum | (50) | (50) | (49) | (51) |
| Lymphoid Tissue, Hyperplasia | | 1 [3.0] | | |
| Intestine Large, Colon | (50) | (50) | (49) | (51) |
| Epithelium, Hyperplasia | | 1 [3.0] | | |
| Intestine Large, Rectum | (50) | (50) | (49) | (51) |
| Intestine Small, Duodenum | (50) | (50) | (49) | (51) |
| Intestine Small, Ileum | (50) | (50) | (49) | (51) |
| Inflammation | 3 [1.7] | 1 [2.0] | | |
| Epithelium, Hyperplasia | 2 [2.0] | | | |
| Muscularis, Hyperplasia | 1 [1.0] | | | |
| Intestine Small, Jejunum | (50) | (50) | (49) | (51) |
| Inflammation | 1 [2.0] | | | 2 [1.5] |
| Peyer's Patch, Hyperplasia, Lymphoid | | 2 [3.0] | | 1 [4.0] |
| Liver | (50) | (50) | (49) | (51) |
| Amyloid Deposition | | | 1 [1.0] | |
| Angiectasis | 1 [3.0] | | 1 [2.0] | 1 [2.0] |
| Basophilic Focus | 1 | 2 | 6 | 3 |
| Clear Cell Focus | 18 | 14 | 4 | 14 |
| Congestion | | | | 1 [2.0] |
| Eosinophilic Focus | 30 | 33 | 30 | 16 |

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

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Species/Strain: MICE/B6C3F1

Lab: BAT

| B6C3F1 MICE MALE | 0 mg/L | 250 mg/L | 500 mg/L | 1000 mg/L |
|--|----------|----------|----------|-----------|
| Fatty Change | 11 [1.1] | 1 [1.0] | | 4 [1.5] |
| Fatty Change, Focal | | 1 [2.0] | | |
| Focus Of Cellular Alteration, Atypical | | 19 | 42 | 43 |
| Hematopoietic Cell Proliferation | 1 [1.0] | | 1 [2.0] | |
| Infarct | | 1 [4.0] | 1 [4.0] | 1 [4.0] |
| Infiltration Cellular, Mixed Cell | | | | 1 [3.0] |
| Inflammation | 7 [1.3] | 6 [1.5] | 3 [1.7] | 4 [1.3] |
| Mineralization | | | 1 [2.0] | |
| Mixed Cell Focus | 13 | 6 | 4 | 5 |
| Tension Lipidosis | 3 | 1 | | |
| Bile Duct, Cyst | | 1 [2.0] | | 1 [3.0] |
| Capsule, Fibrosis | | | | 1 [2.0] |
| Centrilobular, Fatty Change | | | 1 [1.0] | 1 [4.0] |
| Hepatocyte, Necrosis | 5 [1.8] | 9 [1.9] | 10 [2.3] | 8 [2.5] |
| Oval Cell, Hyperplasia | 1 [2.0] | | 3 [1.3] | |
| Mesentery | (7) | (1) | (3) | (6) |
| Inflammation | | | | 1 [3.0] |
| Necrosis | 5 [3.0] | 1 [3.0] | 1 [3.0] | 2 [3.0] |
| Pancreas | (50) | (50) | (49) | (51) |
| Amyloid Deposition | 1 [1.0] | | | |
| Fibrosis | | | | 1 [1.0] |
| Acinus, Atrophy | 2 [1.5] | | | |
| Acinus, Hyperplasia | | 1 [2.0] | 1 [2.0] | |
| Duct, Cyst | | | | 1 [2.0] |
| Salivary Glands | (50) | (50) | (49) | (51) |
| Hyperplasia | | 1 [2.0] | | |
| Stomach, Forestomach | (50) | (50) | (49) | (51) |
| Inflammation | 1 [2.0] | 1 [1.0] | | 1 [2.0] |
| Ulcer | 3 [2.0] | 1 [2.0] | 1 [2.0] | 2 [1.5] |
| Epithelium, Hyperplasia | 2 [2.5] | | 1 [1.0] | 1 [3.0] |
| Stomach, Glandular | (50) | (50) | (49) | (51) |
| Amyloid Deposition | | | 3 [1.3] | 1 [2.0] |
| Erosion | | | | 1 [2.0] |
| Inflammation | 1 [2.0] | | | |
| Mineralization | 1 [1.0] | | | |
| Ulcer | | | 2 [2.0] | |

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Water disinfection byproducts (Bromodichloroacetic acid)

Time Report Requested: 09:41:46

Route: DOSED WATER

CAS Number: 71133-14-7

First Dose M/F: 09/26/06 / 09/25/06

Species/Strain: MICE/B6C3F1

Lab: BAT

| B6C3F1 MICE MALE | 0 mg/L | 250 mg/L | 500 mg/L | 1000 mg/L |
|---------------------------------|----------|----------|----------|-----------|
| Epithelium, Hyperplasia | 2 [4.0] | | | |
| Glands, Ectasia | | 1 [1.0] | | 1 [1.0] |
| Tooth | (35) | (22) | (13) | (0) |
| Dysplasia | 1 | | | |
| Malformation | 34 [1.0] | 20 | 13 | |
| Peridontal Tissue, Fibrosis | | 2 [2.0] | | |
| Peridontal Tissue, Inflammation | | 1 [2.0] | | |

CARDIOVASCULAR SYSTEM

| | | | | |
|----------------------------|----------|----------|----------|----------|
| Blood Vessel | (50) | (50) | (49) | (51) |
| Aorta, Inflammation | | | | 1 [2.0] |
| Aorta, Mineralization | | | 1 [3.0] | 1 [3.0] |
| Heart | (50) | (50) | (49) | (51) |
| Cardiomyopathy | 31 [1.2] | 41 [1.4] | 30 [1.2] | 33 [1.2] |
| Arteriole, Hyperplasia | 1 [2.0] | | | |
| Arteriole, Inflammation | 1 [1.0] | 1 [2.0] | | |
| Artery, Inflammation | | | | 1 [3.0] |
| Artery, Mineralization | | | 1 [3.0] | |
| Atrium, Thrombosis | 2 [2.0] | | 1 [2.0] | |
| Endocardium, Inflammation | | | | 1 [2.0] |
| Epicardium, Fibrosis | 1 [1.0] | | | |
| Myocardium, Mineralization | 1 [2.0] | | 1 [2.0] | 2 [2.0] |
| Valve, Inflammation | 1 [4.0] | | | |

ENDOCRINE SYSTEM

| | | | | |
|--------------------------|----------|----------|---------|---------|
| Adrenal Cortex | (50) | (50) | (49) | (50) |
| Angiectasis | | 1 [1.0] | | 1 [2.0] |
| Hyperplasia | | 2 [1.5] | | 1 [1.0] |
| Hypertrophy | 14 [1.6] | 21 [1.6] | 9 [1.7] | 9 [1.1] |
| Necrosis | | | | 1 [4.0] |
| Subcapsular, Hyperplasia | | | 1 [2.0] | |
| Adrenal Medulla | (50) | (50) | (49) | (50) |
| Angiectasis | 1 [2.0] | | | |

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Lab: BAT

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|------------------------------|---------|----------|----------|-----------|
| Hyperplasia | | 1 [4.0] | 1 [1.0] | 1 [2.0] |
| Mineralization | | | | 1 [1.0] |
| Necrosis | | | | 1 [4.0] |
| Islets, Pancreatic | (50) | (50) | (49) | (51) |
| Parathyroid Gland | (44) | (45) | (44) | (44) |
| Pituitary Gland | (50) | (49) | (49) | (51) |
| Cyst | | 5 [1.4] | | 2 [1.0] |
| Pars Distalis, Hyperplasia | 1 [1.0] | 2 [1.0] | 4 [1.0] | |
| Thyroid Gland | (50) | (50) | (49) | (51) |
| Cyst | | 1 [2.0] | | |
| C-cell, Hyperplasia | | 1 [1.0] | | |
| Follicle, Cyst | 1 [1.0] | 3 [1.7] | 1 [1.0] | 1 [2.0] |
| Follicular Cell, Hyperplasia | | | 1 [1.0] | |

GENERAL BODY SYSTEM

| | | | | |
|------------|-----|-----|-----|-----|
| Peritoneum | (0) | (0) | (0) | (1) |
|------------|-----|-----|-----|-----|

GENITAL SYSTEM

| | | | | |
|--------------------------|---------|---------|----------|----------|
| Epididymis | (50) | (50) | (49) | (51) |
| Atrophy | | 7 [1.9] | 10 [2.0] | 17 [2.1] |
| Granuloma Sperm | | | | 1 [3.0] |
| Hypospermia | | 1 [2.0] | | 17 [2.7] |
| Inflammation | 2 [2.0] | 1 [2.0] | 1 [1.0] | |
| Epithelium, Degeneration | 1 [3.0] | 1 [2.0] | 10 [1.6] | 6 [1.3] |
| Mesothelium, Hyperplasia | | | 1 [1.0] | 1 [1.0] |
| Penis | (0) | (1) | (0) | (0) |
| Hyperplasia, Squamous | | 1 [3.0] | | |
| Preputial Gland | (50) | (50) | (49) | (51) |
| Atrophy | | 1 [2.0] | | |
| Inflammation | 7 [1.9] | 4 [1.3] | 3 [1.7] | 8 [1.8] |
| Duct, Ectasia | 6 [2.0] | 6 [2.5] | 5 [2.2] | 10 [2.4] |
| Prostate | (50) | (50) | (49) | (51) |
| Atrophy | | | | 1 [3.0] |

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Lab: BAT

| B6C3F1 MICE MALE | 0 mg/L | 250 mg/L | 500 mg/L | 1000 mg/L |
|-------------------------|---------|----------|----------|-----------|
| Inflammation | 3 [1.7] | 3 [2.0] | 1 [4.0] | 2 [1.5] |
| Arteriole, Inflammation | | | | 1 [3.0] |
| Seminal Vesicle | (50) | (50) | (49) | (51) |
| Atrophy | | 1 [2.0] | | 1 [3.0] |
| Dilatation | 1 [3.0] | 1 [3.0] | 1 [3.0] | |
| Inflammation | 2 [2.5] | 2 [3.5] | 3 [2.3] | 1 [4.0] |
| Testes | (50) | (50) | (49) | (51) |
| Atrophy | 4 [1.3] | 6 [2.2] | 13 [2.4] | 23 [2.9] |
| Fibrosis | | 1 [2.0] | | |

HEMATOPOIETIC SYSTEM

| | | | | |
|------------------------------------|---------|---------|---------|---------|
| Bone Marrow | (50) | (50) | (49) | (51) |
| Angiectasis | | | | 2 [2.0] |
| Hyperplasia | | 2 [2.0] | | |
| Necrosis | | 1 [3.0] | | |
| Lymph Node | (0) | (1) | (2) | (5) |
| Axillary, Hyperplasia, Plasma Cell | | | | 1 [3.0] |
| Lumbar, Hyperplasia, Lymphoid | | 1 [3.0] | | |
| Lumbar, Hyperplasia, Plasma Cell | | 1 [2.0] | | 1 [2.0] |
| Lumbar, Inflammation, Suppurative | | | | 1 [3.0] |
| Renal, Hyperplasia, Plasma Cell | | | | 1 [2.0] |
| Lymph Node, Mandibular | (50) | (50) | (49) | (51) |
| Degeneration, Cystic | | | | 1 [2.0] |
| Hyperplasia, Lymphoid | | 1 [2.0] | | |
| Hyperplasia, Plasma Cell | 3 [2.0] | 1 [2.0] | | 1 [3.0] |
| Lymph Node, Mesenteric | (50) | (48) | (48) | (48) |
| Hematopoietic Cell Proliferation | | 1 [2.0] | | |
| Hemorrhage | | | | 2 [2.5] |
| Hyperplasia, Lymphoid | | | | 1 [3.0] |
| Hyperplasia, Plasma Cell | 2 [2.0] | 4 [1.8] | | 1 [3.0] |
| Necrosis, Lymphoid | | | | 1 [2.0] |
| Spleen | (50) | (50) | (49) | (50) |
| Atrophy | | | 3 [2.0] | 1 [3.0] |
| Hematopoietic Cell Proliferation | 1 [2.0] | 3 [3.0] | 5 [2.4] | 4 [2.3] |

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Lab: BAT

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|----------------------------------|---------|-----------------|--------------------|-----------|
| Hyperplasia, Lymphoid Infarct | 4 [1.8] | 7 [2.1] | 5 [1.8] 1 [4.0] | 5 [2.2] |
| Thymus Atrophy | (45) | (45) 1 [1.0] | (45) | (44) |
| Mineralization | 1 [1.0] | | | |

INTEGUMENTARY SYSTEM

| | | | | |
|------------------------------------|---------|---------|--------------------|---------|
| Mammary Gland | (5) | (3) | (4) | (7) |
| Skin | (50) | (50) | (49) | (51) |
| Inflammation, Suppurative Ulcer | 1 [2.0] | 2 [3.5] | 1 [4.0] 1 [4.0] | 1 [4.0] |
| Dermis, Fibrosis | | 1 [3.0] | | |
| Epidermis, Hyperplasia | | 1 [2.0] | | |

MUSCULOSKELETAL SYSTEM

| | | | | |
|---|------|---------|------|---------|
| Bone | (50) | (50) | (49) | (51) |
| Cranium, Periosteum, Fibrosis Femur, Osteopetrosis | | 1 [2.0] | | 1 [2.0] |
| Skeletal Muscle | (0) | (2) | (2) | (2) |

NERVOUS SYSTEM

| | | | | |
|----------------------------------|----------------|----------------|---------|------|
| Brain | (50) | (50) | (49) | (51) |
| Cerebrum, Demyelination | | | 1 [2.0] | |
| Peripheral Nerve Degeneration | (2) 1 [1.0] | (1) 1 [2.0] | (0) | (0) |
| Spinal Cord Demyelination | (2) | (1) 1 [1.0] | (0) | (0) |

RESPIRATORY SYSTEM

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

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Species/Strain: MICE/B6C3F1

Lab: BAT

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|---|---------|----------|----------|-----------|
| Lung | (50) | (50) | (49) | (51) |
| Inflammation | 1 [2.0] | | 3 [1.3] | 4 [1.0] |
| Thrombosis | 1 [1.0] | 2 [2.5] | | 2 [1.5] |
| Alveolar Epithelium, Hyperplasia | 2 [1.5] | 2 [2.0] | 4 [2.0] | 4 [1.0] |
| Alveolus, Infiltration Cellular, Histiocyte | | 1 [3.0] | 4 [1.0] | 1 [1.0] |
| Capillary, Thrombosis | | | | 1 [1.0] |
| Perivascular, Infiltration Cellular, Mononuclear Cell | 1 [1.0] | | | |
| Vein, Mineralization | | | 1 [2.0] | |
| Nose | (50) | (50) | (49) | (51) |
| Inflammation | 5 [1.2] | 9 [1.0] | 7 [1.3] | 9 [1.0] |
| Glands, Dilatation | | | 1 [1.0] | |
| Glands, Fibrosis | | | 1 [3.0] | |
| Glands, Hyperplasia | | 3 [1.0] | 2 [1.0] | |
| Respiratory Epithelium, Hyperplasia | | 1 [2.0] | | |
| Respiratory Epithelium, Metaplasia | | 1 [2.0] | | |
| Turbinate, Fibrosis, Focal | | | | 1 [2.0] |
| Trachea | (50) | (50) | (49) | (51) |
| Inflammation | | | | 1 [1.0] |
| Peritracheal Tissue, Cyst | 1 [4.0] | | | |
| SPECIAL SENSES SYSTEM | | | | |
| Eye | (50) | (50) | (49) | (51) |
| Cataract | 1 [2.0] | | 1 [2.0] | 1 [3.0] |
| Phthisis Bulbi | | | | 2 |
| Synechia | 1 [2.0] | | | 1 [4.0] |
| Cornea, Inflammation | | 2 [1.5] | 2 [2.5] | 1 [2.0] |
| Optic Nerve, Degeneration | 1 [3.0] | 1 [1.0] | | |
| Retina, Dysplasia | 1 [2.0] | 1 [1.0] | 1 [2.0] | |
| Harderian Gland | (50) | (50) | (49) | (51) |
| Inflammation | | | | 1 [3.0] |
| Epithelium, Hyperplasia | 1 [2.0] | 1 [1.0] | 3 [2.3] | 4 [2.0] |

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Lab: BAT

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|---|----------|----------|----------|-----------|
| URINARY SYSTEM | | | | |
| Kidney | (50) | (50) | (49) | (51) |
| Atrophy, Diffuse | | | | 1 [4.0] |
| Casts Protein | | | | 1 [4.0] |
| Hydronephrosis | 2 [1.0] | | 1 [2.0] | 1 [1.0] |
| Infarct | 3 [1.7] | 3 [2.3] | | 5 [1.8] |
| Infiltration Cellular, Mononuclear Cell | | 1 [2.0] | | 2 [2.0] |
| Inflammation | 3 [3.0] | 4 [1.8] | 2 [3.0] | 3 [1.7] |
| Metaplasia, Osseous | | 3 [1.7] | | |
| Mineralization | 2 [1.0] | 1 [2.0] | 1 [1.0] | |
| Nephropathy | 49 [1.4] | 47 [1.5] | 45 [1.7] | 42 [1.7] |
| Papilla, Necrosis | 1 [3.0] | | 1 [3.0] | |
| Renal Tubule, Cyst | 4 [1.0] | 3 [2.3] | 1 [1.0] | |
| Renal Tubule, Hyperplasia | | 2 [1.0] | | |
| Ureter | (1) | (0) | (0) | (0) |
| Urethra | (1) | (0) | (0) | (0) |
| Urinary Bladder | (50) | (50) | (49) | (51) |
| Infiltration Cellular, Mononuclear Cell | | | | 1 [2.0] |
| Inflammation | 2 [1.5] | | | 1 [1.0] |
| Metaplasia, Squamous | 1 [2.0] | | | |
| Transitional Epithelium, Hyperplasia | | | | 1 [3.0] |

*** END OF MALE ***

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Lab: BAT

| B6C3F1 MICE FEMALE | 0 mg/L | 250 mg/L | 500 mg/L | 1000 mg/L |
|--------------------|--------|----------|----------|-----------|
|--------------------|--------|----------|----------|-----------|

Disposition Summary

| | | | | |
|---|-----------|-----------|-----------|-----------|
| Animals Initially In Study | 66 | 66 | 66 | 66 |
| Scheduled Sacrifice | 16 | 16 | 16 | 16 |
| Early Deaths | | | | |
| Moribund Sacrifice | 9 | 9 | 8 | 11 |
| Natural Death | 11 | 8 | 13 | 12 |
| Survivors | | | | |
| Natural Death | | | | 1 |
| Terminal Sacrifice | 30 | 33 | 29 | 26 |
| Animals Examined Microscopically | 50 | 50 | 50 | 50 |

ALIMENTARY SYSTEM

| | | | | |
|--------------------------------------|---------|---------|---------|---------|
| Esophagus | (50) | (50) | (47) | (48) |
| Gallbladder | (47) | (48) | (50) | (44) |
| Intestine Large, Cecum | (50) | (50) | (50) | (50) |
| Diverticulum | | 1 | | |
| Epithelium, Hyperplasia | | 1 [2.0] | | |
| Lymphoid Tissue, Hyperplasia | | 1 [2.0] | | |
| Intestine Large, Colon | (50) | (50) | (50) | (50) |
| Serosa, Inflammation | | | 1 [3.0] | |
| Intestine Large, Rectum | (49) | (50) | (50) | (50) |
| Serosa, Inflammation | | | 1 [3.0] | |
| Intestine Small, Duodenum | (49) | (50) | (50) | (49) |
| Intestine Small, Ileum | (50) | (50) | (50) | (49) |
| Inflammation | 1 [1.0] | 1 [2.0] | 1 [2.0] | |
| Intestine Small, Jejunum | (50) | (50) | (50) | (50) |
| Inflammation | | | | 1 [1.0] |
| Epithelium, Hyperplasia | | 1 [2.0] | | |
| Peyer's Patch, Hyperplasia, Lymphoid | | | | 1 [4.0] |
| Peyer's Patch, Mineralization | | 1 [1.0] | | |
| Liver | (49) | (50) | (49) | (50) |
| Angiectasis | | 1 [2.0] | 6 [2.3] | 3 [2.3] |
| Basophilic Focus | 3 | 1 | 1 | 3 |
| Clear Cell Focus | 5 | 5 | 8 | 5 |

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Water disinfection byproducts (Bromodichloroacetic acid)

Time Report Requested: 09:41:46

Route: DOSED WATER

CAS Number: 71133-14-7

First Dose M/F: 09/26/06 / 09/25/06

Species/Strain: MICE/B6C3F1

Lab: BAT

| B6C3F1 MICE FEMALE | 0 mg/L | 250 mg/L | 500 mg/L | 1000 mg/L |
|--|----------|----------|----------|-----------|
| Eosinophilic Focus | 22 | 33 | 38 | 40 |
| Fatty Change | 4 [1.0] | 2 [1.0] | 2 [1.5] | 1 [3.0] |
| Fatty Change, Focal | | | | 2 |
| Focus Of Cellular Alteration, Atypical | | 2 | 6 | 16 |
| Hematopoietic Cell Proliferation | 1 [1.0] | 2 [2.5] | 2 [1.5] | |
| Hemorrhage | 1 [3.0] | | | |
| Infarct | | 1 [4.0] | | |
| Inflammation | 27 [1.1] | 18 [1.2] | 9 [1.3] | 15 [1.0] |
| Mineralization | | 1 [2.0] | 1 [2.0] | |
| Mixed Cell Focus | 4 | 10 | 4 | 4 |
| Pigmentation | | | | 1 [1.0] |
| Tension Lipidosis | 4 | 1 | 3 | |
| Thrombosis | | | 1 [3.0] | 1 [3.0] |
| Bile Duct, Cyst | 1 [2.0] | | | |
| Bile Duct, Hyperplasia | 2 [1.0] | 4 [1.0] | 3 [1.0] | 3 [1.0] |
| Centrilobular, Fatty Change | | 2 [3.0] | | |
| Hepatocyte, Hypertrophy | | 1 [2.0] | | |
| Hepatocyte, Necrosis | 2 [2.0] | 4 [1.8] | 2 [1.5] | 6 [2.2] |
| Oval Cell, Hyperplasia | | | 1 [1.0] | 1 [1.0] |
| Portal, Fibrosis | | | 1 [2.0] | |
| Mesentery | (10) | (13) | (13) | (10) |
| Inflammation | 1 [3.0] | | | |
| Necrosis | 7 [3.0] | 11 [3.0] | 11 [3.0] | 9 [3.0] |
| Oral Mucosa | (2) | (2) | (0) | (0) |
| Gingival, Hyperplasia | 1 [2.0] | | | |
| Pharyngeal, Hyperplasia | | 2 [1.5] | | |
| Pharyngeal, Inflammation | 1 [1.0] | | | |
| Pancreas | (49) | (50) | (50) | (48) |
| Inflammation | | 1 [3.0] | | |
| Mineralization, Focal | | 1 [2.0] | | |
| Acinus, Atrophy | | 3 [2.7] | 1 [2.0] | |
| Acinus, Hyperplasia | | | 1 [2.0] | |
| Duct, Cyst | | | | 1 [4.0] |
| Salivary Glands | (48) | (49) | (44) | (45) |
| Stomach, Forestomach | (50) | (50) | (50) | (50) |
| Inflammation | | | 1 [2.0] | 1 [1.0] |

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Water disinfection byproducts (Bromodichloroacetic acid)

Time Report Requested: 09:41:46

Route: DOSED WATER

CAS Number: 71133-14-7

First Dose M/F: 09/26/06 / 09/25/06

Species/Strain: MICE/B6C3F1

Lab: BAT

| B6C3F1 MICE FEMALE | 0 mg/L | 250 mg/L | 500 mg/L | 1000 mg/L |
|-------------------------|---------|----------|----------|-----------|
| Ulcer | 1 [3.0] | | | 1 [3.0] |
| Epithelium, Hyperplasia | | | | 2 [2.0] |
| Stomach, Glandular | (50) | (50) | (50) | (50) |
| Inflammation | 1 [1.0] | | | |
| Mineralization | 1 [2.0] | 3 [1.0] | | |
| Epithelium, Hyperplasia | | | | 2 [2.5] |
| Glands, Ectasia | 2 [1.0] | | | 2 [1.0] |
| Tongue | (0) | (0) | (0) | (1) |
| Tooth | (0) | (2) | (0) | (1) |
| Malformation | | | | 1 |
| Pulp, Inflammation | | 2 [1.5] | | |

CARDIOVASCULAR SYSTEM

| | | | | |
|----------------------------|----------|----------|----------|----------|
| Blood Vessel | (50) | (50) | (48) | (49) |
| Heart | (50) | (50) | (48) | (48) |
| Cardiomyopathy | 38 [1.2] | 34 [1.2] | 33 [1.2] | 35 [1.2] |
| Atrium, Thrombosis | | | | 1 [4.0] |
| Endocardium, Inflammation | 1 [2.0] | | | 1 [3.0] |
| Myocardium, Inflammation | 1 [1.0] | | | |
| Myocardium, Mineralization | 1 [1.0] | | | |
| Valve, Thrombosis | | | | 1 [3.0] |
| Ventricle, Thrombosis | 1 [2.0] | 1 [3.0] | | |

ENDOCRINE SYSTEM

| | | | | |
|---|---------|----------|---------|---------|
| Adrenal Cortex | (49) | (50) | (47) | (49) |
| Degeneration, Cystic | | 2 [1.5] | | |
| Degeneration, Fatty | | | 1 [3.0] | |
| Hematopoietic Cell Proliferation | | 3 [1.7] | 1 [3.0] | 1 [2.0] |
| Hyperplasia | 7 [1.1] | 12 [1.1] | 5 [1.0] | 1 [1.0] |
| Hypertrophy | 5 [1.0] | 10 [1.1] | 3 [1.0] | 5 [1.2] |
| Infiltration Cellular, Mononuclear Cell | 1 [2.0] | | | 1 [1.0] |
| Necrosis | 1 [2.0] | | | |
| Vacuolization Cytoplasmic | | 2 [2.5] | | |

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Water disinfection byproducts (Bromodichloroacetic acid)

Time Report Requested: 09:41:46

Route: DOSED WATER

CAS Number: 71133-14-7

First Dose M/F: 09/26/06 / 09/25/06

Species/Strain: MICE/B6C3F1

Lab: BAT

| B6C3F1 MICE FEMALE | 0 mg/L | 250 mg/L | 500 mg/L | 1000 mg/L |
|---|----------|----------|----------|-----------|
| Adrenal Medulla | (50) | (50) | (48) | (49) |
| Amyloid Deposition | | 1 [1.0] | | |
| Hyperplasia | 2 [1.5] | 1 [2.0] | | |
| Infiltration Cellular, Mononuclear Cell | | | 1 [2.0] | |
| Islets, Pancreatic | (49) | (50) | (50) | (48) |
| Parathyroid Gland | (45) | (46) | (41) | (38) |
| Cyst | 2 [1.5] | | | 1 [1.0] |
| Pituitary Gland | (49) | (49) | (46) | (48) |
| Angiectasis | 3 [2.0] | | | |
| Cyst | 2 [1.5] | 1 [2.0] | | 2 [2.5] |
| Mineralization | 1 [1.0] | | | |
| Pars Distalis, Hyperplasia | 14 [2.1] | 12 [2.2] | 8 [1.8] | 11 [1.6] |
| Thyroid Gland | (49) | (50) | (46) | (45) |
| Infiltration Cellular, Mononuclear Cell | 1 [1.0] | | 1 [1.0] | |
| Inflammation | | 2 [1.0] | | 1 [2.0] |
| C-cell, Hyperplasia | | 2 [1.0] | | 1 [1.0] |
| Follicle, Cyst | 1 [2.0] | 6 [1.5] | 4 [1.5] | 3 [2.0] |
| Follicular Cell, Hyperplasia | | | 1 [4.0] | |

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

| | | | | |
|---|---------|---------|---------|---------|
| Clitoral Gland | (47) | (50) | (50) | (48) |
| Ovary | (50) | (50) | (50) | (50) |
| Angiectasis | | 1 [2.0] | | |
| Atrophy | | | | 2 [3.5] |
| Cyst | 4 [2.5] | 3 [2.0] | 5 [3.2] | 4 [1.8] |
| Infiltration Cellular, Mononuclear Cell | 1 [1.0] | | | 1 [3.0] |
| Mineralization | | | 1 [1.0] | 1 [1.0] |
| Pigmentation, Hemosiderin | | | 1 [2.0] | |
| Periovarian Tissue, Inflammation | | | 1 [4.0] | |
| Uterus | (50) | (50) | (50) | (50) |

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Water disinfection byproducts (Bromodichloroacetic acid)

Time Report Requested: 09:41:46

Route: DOSED WATER

CAS Number: 71133-14-7

First Dose M/F: 09/26/06 / 09/25/06

Species/Strain: MICE/B6C3F1

Lab: BAT

| B6C3F1 MICE FEMALE | 0 mg/L | 250 mg/L | 500 mg/L | 1000 mg/L |
|--|----------|----------|----------|-----------|
| Angiectasis | 2 [2.5] | | | |
| Infiltration Cellular, Mononuclear Cell | | | | 1 [2.0] |
| Inflammation | 4 [3.3] | 2 [3.5] | | 2 [2.0] |
| Mineralization | | 1 [1.0] | | |
| Thrombosis | | | 1 [4.0] | |
| Endometrium, Hyperplasia, Cystic | 44 [3.3] | 45 [3.2] | 37 [2.8] | 38 [2.9] |
| Endometrium, Hyperplasia, Reticulum Cell | 1 [2.0] | | | |
| Vagina | (0) | (0) | (0) | (1) |

HEMATOPOIETIC SYSTEM

| | | | | |
|---------------------------------------|----------|----------|----------|----------|
| Bone Marrow | (50) | (50) | (50) | (50) |
| Angiectasis | | | | 1 [2.0] |
| Hyperplasia | 1 [2.0] | | | |
| Necrosis | | | 1 [1.0] | |
| Lymph Node | (2) | (3) | (3) | (5) |
| Inguinal, Hyperplasia | | | | 1 [3.0] |
| Lumbar, Hyperplasia, Plasma Cell | | 1 [2.0] | 1 [3.0] | |
| Mediastinal, Hyperplasia, Plasma Cell | | 1 [2.0] | | |
| Mediastinal, Inflammation | | | | 1 [3.0] |
| Renal, Degeneration, Cystic | | 1 [4.0] | | |
| Lymph Node, Mandibular | (48) | (49) | (44) | (45) |
| Hematopoietic Cell Proliferation | | 1 [2.0] | | |
| Hyperplasia, Lymphoid | 1 [2.0] | 2 [2.0] | | |
| Inflammation | 1 [2.0] | | | |
| Lymph Node, Mesenteric | (48) | (50) | (47) | (47) |
| Degeneration, Cystic | | 1 [4.0] | | |
| Hematopoietic Cell Proliferation | | 2 [1.5] | | |
| Hyperplasia, Lymphoid | 1 [2.0] | 2 [2.5] | 1 [2.0] | |
| Hyperplasia, Plasma Cell | | 3 [2.3] | | |
| Inflammation | | 2 [1.0] | 1 [3.0] | |
| Spleen | (49) | (50) | (50) | (48) |
| Accessory Spleen | | 1 | | |
| Hematopoietic Cell Proliferation | 5 [2.6] | 4 [2.5] | 2 [2.0] | 4 [2.8] |
| Hyperplasia, Lymphoid | 16 [2.3] | 16 [2.1] | 11 [2.3] | 10 [2.1] |

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Water disinfection byproducts (Bromodichloroacetic acid)

Time Report Requested: 09:41:46

Route: DOSED WATER

CAS Number: 71133-14-7

First Dose M/F: 09/26/06 / 09/25/06

Species/Strain: MICE/B6C3F1

Lab: BAT

| B6C3F1 MICE FEMALE | 0 mg/L | 250 mg/L | 500 mg/L | 1000 mg/L |
|---------------------------|---------|----------|----------|-----------|
| Infarct | 1 [4.0] | | | |
| Necrosis | | | | 1 [2.0] |
| Pigmentation, Hemosiderin | 2 [1.5] | 4 [1.3] | | |
| Thymus | (50) | (50) | (46) | (46) |
| Hyperplasia, Lymphoid | 1 [4.0] | | | |

INTEGUMENTARY SYSTEM

| | | | | |
|-----------------------------|------|------|---------|---------|
| Mammary Gland | (50) | (50) | (49) | (50) |
| Hyperplasia | | | 1 [3.0] | |
| Inflammation | | | | 1 [1.0] |
| Skin | (50) | (50) | (50) | (50) |
| Inflammation, Granulomatous | | | | 1 [4.0] |

MUSCULOSKELETAL SYSTEM

| | | | | |
|-----------------------|---------|------|---------|---------|
| Bone | (50) | (50) | (50) | (50) |
| Fibro-Osseous Lesion | | | | 3 [1.7] |
| Osteopetrosis | | | | 1 [1.0] |
| Maxilla, Osteomalacia | 1 [2.0] | | | |
| Vertebra, Fibrosis | | | 1 [2.0] | |
| Skeletal Muscle | (1) | (2) | (2) | (1) |

NERVOUS SYSTEM

| | | | | |
|-----------------------------------|------|------|------|---------|
| Brain | (49) | (50) | (47) | (49) |
| Cyst Epithelial Inclusion | | | 1 | |
| Arteriole, Meninges, Inflammation | | | | 1 [1.0] |

RESPIRATORY SYSTEM

| | | | | |
|--------------|---------|---------|---------|---------|
| Lung | (50) | (50) | (48) | (48) |
| Inflammation | 4 [1.5] | 5 [1.2] | 2 [1.5] | 3 [1.0] |

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Water disinfection byproducts (Bromodichloroacetic acid)

Time Report Requested: 09:41:46

Route: DOSED WATER

CAS Number: 71133-14-7

First Dose M/F: 09/26/06 / 09/25/06

Species/Strain: MICE/B6C3F1

Lab: BAT

| B6C3F1 MICE FEMALE | 0 mg/L | 250 mg/L | 500 mg/L | 1000 mg/L |
|---|---------|----------|----------|-----------|
| Thrombosis | | | | 1 [2.0] |
| Alveolar Epithelium, Hyperplasia | 3 [1.7] | 2 [1.5] | 2 [2.0] | 1 [1.0] |
| Alveolus, Infiltration Cellular, Histiocyte | 3 [1.0] | 2 [2.0] | | 3 [1.3] |
| Perivascular, Infiltration Cellular, Mononuclear Cell | | 4 [2.0] | 1 [2.0] | 2 [1.5] |
| Nose | (50) | (50) | (50) | (50) |
| Accumulation, Hyaline Droplet | 1 [2.0] | 2 [1.5] | | 1 [1.0] |
| Inflammation | 3 [1.3] | 4 [1.0] | 7 [1.4] | 4 [1.0] |
| Glands, Dilatation | 1 [1.0] | | | |
| Glands, Hyperplasia | | | 1 [1.0] | 1 [1.0] |
| Goblet Cell, Hypertrophy | | 2 [2.0] | | 1 [2.0] |
| Respiratory Epithelium, Hyperplasia | 1 [2.0] | | | 1 [1.0] |
| Trachea | (50) | (50) | (46) | (46) |
| Inflammation | | | | 1 [1.0] |

SPECIAL SENSES SYSTEM

| | | | | |
|-------------------------------|---------|---------|---------|---------|
| Eye | (48) | (50) | (46) | (46) |
| Cataract | 2 [1.5] | 1 [2.0] | | |
| Cornea, Hyperplasia, Squamous | | 1 [1.0] | | |
| Cornea, Inflammation | 1 [3.0] | 3 [1.0] | 1 [2.0] | |
| Retina, Dysplasia | 1 [1.0] | 1 [1.0] | | |
| Retrobulbar, Inflammation | | | | 1 [2.0] |
| Harderian Gland | (48) | (50) | (46) | (46) |
| Inflammation | | | | 1 [2.0] |
| Epithelium, Hyperplasia | 2 [2.5] | 3 [1.3] | 1 [2.0] | 2 [1.5] |

URINARY SYSTEM

| | | | | |
|---|---------|---------|---------|---------|
| Kidney | (50) | (50) | (50) | (49) |
| Hydronephrosis | 3 [1.3] | 2 [1.0] | 2 [2.0] | 1 [1.0] |
| Infarct | 4 [1.5] | 2 [2.5] | 5 [2.0] | 7 [1.7] |
| Infiltration Cellular, Mononuclear Cell | 2 [1.0] | | 2 [1.5] | 1 [1.0] |
| Inflammation | 3 [1.0] | 4 [1.8] | 1 [3.0] | 1 [1.0] |
| Metaplasia, Osseous | 1 [1.0] | 3 [1.3] | | 1 [1.0] |

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Experiment Number: 96014 - 06

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH
AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 07/05/2012

Test Type: CHRONIC

Water disinfection byproducts (Bromodichloroacetic acid)

Time Report Requested: 09:41:46

Route: DOSED WATER

CAS Number: 71133-14-7

First Dose M/F: 09/26/06 / 09/25/06

Species/Strain: MICE/B6C3F1

Lab: BAT

| B6C3F1 MICE FEMALE | 0 mg/L | 250 mg/L | 500 mg/L | 1000 mg/L |
|---|----------|----------|----------|-----------|
| Mineralization | | 2 [1.0] | 1 [1.0] | |
| Nephropathy | 40 [1.1] | 38 [1.2] | 31 [1.0] | 30 [1.3] |
| Glomerulus, Amyloid Deposition | | 1 [1.0] | 1 [4.0] | |
| Papilla, Necrosis | | 1 [2.0] | | |
| Renal Tubule, Cyst | 1 [2.0] | 1 [1.0] | | |
| Renal Tubule, Hyperplasia | | 1 [1.0] | | |
| Renal Tubule, Necrosis | 1 [2.0] | | | |
| Urinary Bladder | (50) | (50) | (50) | (50) |
| Hyperplasia, Lymphoid | | 1 [2.0] | | |
| Infiltration Cellular, Mononuclear Cell | 1 [2.0] | | | |
| Inflammation | | 2 [1.5] | 1 [3.0] | |
| Transitional Epithelium, Hyperplasia | | | | 1 [2.0] |

*** END OF REPORT ***

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

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)