

Experiment Number: 20321 - 01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
Time Report Requested: 11:06:13
First Dose M/F: 01/09/06 / 01/10/06
Lab: BAT

F1_Rev.1_R2

NTP Study Number: C20321
Lock Date: 01/05/2007
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.2_002
PWG Approval Date: NONE

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ALIMENTARY SYSTEM

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 Lab: BAT

| FISCHER 344-TACONIC RATS MALE | 0 mg/kg | ANIMAL ID | DAY ON TEST | | | | | | | | | | | |
|-------------------------------|---------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

* TOTALS

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Cardiomyopathy | 1 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 1.2 |
| Infiltration Cellular, Mixed Cell | | | | | | 1 | | | | | | | | 1 1.0 |
| Pigmentation | | | | | | 1 | | | | | | | | 1 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | + | + | M | + | + | + | M | + | + | M | | | | 7 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Chronic Active | 1 | 1 | 1 | 1 | 1 | | | | | | | | | 5 1.0 |

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|-----------------------------------|---------|-----------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
| | | | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | |
| Preputial Gland | | | + + + + + + + + + + | | | | | | | | | | | 10 |
| Inflammation | | | | | | | | | | | | | | 3 1.0 |
| Prostate | | | + + + + + + + + + + | | | | | | | | | | | 10 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | 1 1.0 |
| Seminal Vesicle | | | + + + + + + + + + + | | | | | | | | | | | 10 |
| Testes | | | + + + + + + + + + + | | | | | | | | | | | 10 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | |
| Bone Marrow | | | + + + + + + + + + + | | | | | | | | | | | 10 |
| Lymph Node, Mandibular | | | + + + + + + + + + + | | | | | | | | | | | 10 |
| Lymph Node, Mesenteric | | | + + + + + + + + + + | | | | | | | | | | | 10 |
| Infiltration Cellular, Histiocyte | | | 3 3 3 3 3 2 3 3 3 3 | | | | | | | | | | | 10 2.9 |
| Spleen | | | + + + + + + + + + + | | | | | | | | | | | 10 |
| Thymus | | | + + + + + + + + + + | | | | | | | | | | | 10 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | |
| Mammary Gland | | | + + + + + + + + + + | | | | | | | | | | | 10 |
| Skin | | | + + + + + + + + + + | | | | | | | | | | | 10 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | |

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| FISCHER 344-TACONIC RATS MALE | 0 mg/kg | ANIMAL ID | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|---------|-----------|-------------|---|---|---|---|---|---|---|---|---|--------|
| | | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | * |
| Bone | | | | + | + | + | + | + | + | + | + | + | 10 |
| NERVOUS SYSTEM | | | | | | | | | | | | | |
| Brain | | | | + | + | + | + | + | + | + | + | + | 10 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | |
| Lung | | | | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | 7 1.1 |
| Metaplasia, Osseous | | | | | | | | | | | | | 1 1.0 |
| Nose | | | | + | + | + | + | + | + | + | + | + | 10 |
| Trachea | | | | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | 1 1.0 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | |
| Eye | | | | + | + | + | + | + | + | + | + | + | 10 |
| Harderian Gland | | | | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Mononuclear Cell | | | | 1 | 1 | | | | | | | | 2 1.0 |
| URINARY SYSTEM | | | | | | | | | | | | | |
| Kidney | | | | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | 1 1.0 |
| Mineralization | | | | | | | | | | | | | 8 1.0 |
| Nephropathy | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 1.0 |

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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | | FISCHER 344-TACONIC RATS MALE | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 mg/kg | | | | | | | | | | | | | | | | | | | | | | | | |
| | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | | | | |
| + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | DAY ON TEST | | | | | | | | | | |
|-------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344-TACONIC RATS MALE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62.5 mg/kg | 9 | 4 | 9 | 3 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | 3 | 0 | 3 | 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 |

* TOTALS

ALIMENTARY SYSTEM

| | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|-----|
| Esophagus | + | + | | | | | | | | | 2 |
| Intestine Large, Cecum | + | A | | | | | | | | | 1 |
| Intestine Large, Colon | + | + | | | | | | | | | 2 |
| Intestine Large, Rectum | + | + | | | | | | | | | 2 |
| Intestine Small, Duodenum | + | A | | | | | | | | | 1 |
| Intestine Small, Ileum | + | A | | | | | | | | | 1 |
| Intestine Small, Jejunum | + | A | | | | | | | | | 1 |
| Liver | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Chronic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 |
| Vacuolization Cytoplasmic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1.0 |
| Pancreas | + | + | | | | | | | | | 2 |
| Salivary Glands | + | + | | | | | | | | | 2 |
| Stomach, Forestomach | + | + | | | | | | | | | 2 |
| Stomach, Glandular | + | + | | | | | | | | | 2 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | |
|--------------|---|---|--|--|--|--|--|--|--|--|---|
| Blood Vessel | + | + | | | | | | | | | 2 |
|--------------|---|---|--|--|--|--|--|--|--|--|---|

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Lab: BAT

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|-------------------------------|------------|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|----------|
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 9 | 4 | 9 | 3 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | | 3 | 0 | 3 | 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 0 | | |

ENDOCRINE SYSTEM

| | | | | |
|--------------------|---|---|--|---|
| Adrenal Cortex | + | + | | 2 |
| Adrenal Medulla | + | + | | 2 |
| Islets, Pancreatic | + | + | | 2 |
| Parathyroid Gland | + | + | | 2 |
| Pituitary Gland | + | + | | 2 |
| Thyroid Gland | + | + | | 2 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | |
|-----------------|---|---|--|---|
| Epididymis | + | + | | 2 |
| Preputial Gland | + | + | | 2 |
| Prostate | + | + | | 2 |
| Seminal Vesicle | + | + | | 2 |

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|-----------------------------------|------------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------|
| | | | 0 0 9 3 0 | 0 0 9 3 3 | |
| Testes | | | | + + | | | | | | | | | | 2 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | |
| Bone Marrow | | | | + + | | | | | | | | | | 2 |
| Lymph Node, Mandibular | | | | + + | | | | | | | | | | 2 |
| Lymph Node, Mesenteric | | | | + + A | + + + | + + + | + + + | + + + | + + + | + + + | + + + | + + + | | 9 |
| Infiltration Cellular, Histiocyte | | | | 3 3 3 | 3 3 3 | 3 3 3 | 3 3 3 | 3 3 3 | 3 3 3 | 3 3 3 | 3 3 3 | 3 3 3 | | 9 9 3.0 |
| Spleen | | | | + + | | | | | | | | | | 2 |
| Thymus | | | | + + | | | | | | | | | | 2 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | |
| Mammary Gland | | | | + + | | | | | | | | | | 2 |
| Skin | | | | + + | | | | | | | | | | 2 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | |
| Bone | | | | + + | | | | | | | | | | 2 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | |
| Brain | | | | + + | | | | | | | | | | 2 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | |

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|-----------------------------------|------------|-----------|-------------|---|---|---|---|---|---|---|---|---|-------|
| | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lung | | | | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | 1 1.0 |
| Inflammation, Granulomatous | | | | | | | | | | | | | 4 1.5 |
| Inflammation, Acute | | | | | | | | | | | | | 2 1.5 |
| Inflammation, Chronic Active | | | | | | | | | | | | | 1 1.0 |
| Metaplasia, Osseous | | | | | | | | | | | | | 2 1.0 |
| Nose | | | | + | | + | | | | | | | 2 |
| Trachea | | | | + | | + | | | | | | | 2 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | |
| Eye | | | | + | | + | | + | | | | | 3 |
| Harderian Gland | | | | + | | + | | | | | | | 2 |
| URINARY SYSTEM | | | | | | | | | | | | | |
| Kidney | | | | + | | + | | | | | | | 2 |
| Mineralization | | | | 1 | | | | | | | | | 1 1.0 |
| Nephropathy | | | | 1 | | | | | | | | | 1 1.0 |
| Urinary Bladder | | | | + | | + | | | | | | | 2 |

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Lab: BAT

| FISCHER 344-TACONIC RATS MALE | 125 mg/kg | ANIMAL ID | DAY ON TEST | | | | | | | | | | | |
|-------------------------------|-----------|-----------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------|------------------|
| | | | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 |
| | | | 0 0 0 0 2 1 | 0 0 0 0 2 2 | 0 0 0 0 2 3 | 0 0 0 0 2 4 | 0 0 0 0 2 5 | 0 0 0 0 2 6 | 0 0 0 0 2 7 | 0 0 0 0 2 8 | 0 0 0 0 2 9 | 0 0 0 0 2 0 | | |

* TOTALS

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Granulomatous | 1 | 2 | 2 | 2 | 1 | | | 2 | 2 | 1 | | | | 8 1.6 |
| Inflammation, Chronic Active | 3 | 3 | 3 | 3 | 2 | 2 | | 1 | 3 | 1 | | | | 9 2.3 |

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
Time Report Requested: 11:06:13
First Dose M/F: 01/09/06 / 01/10/06
Lab: BAT

| FISCHER 344-TACONIC RATS MALE | | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|
| 250 mg/kg | | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

* TOTALS

ALIMENTARY SYSTEM

| | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|--------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Chronic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 1.0 |
| Vacuolization Cytoplasmic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 1.0 |

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|--------|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Histiocyte | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 10 3.0 |

INTEGUMENTARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal
- 2) Mild
- 3) Moderate
- 4) Marked

Experiment Number: 20321 - 01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
Time Report Requested: 11:06:13
First Dose M/F: 01/09/06 / 01/10/06
Lab: BAT

| FISCHER 344-TACONIC RATS MALE | | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|
| 250 mg/kg | | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

* TOTALS

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

| | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Granulomatous | 1 | 2 | 1 | 2 | | | 1 | 1 | 1 | 1 | 2 | 8 1.4 |
| Inflammation, Chronic Active | | | | | 1 | | 1 | 1 | 1 | 1 | 1 | 6 1.0 |

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 20321 - 01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
Time Report Requested: 11:06:13
First Dose M/F: 01/09/06 / 01/10/06
Lab: BAT

| FISCHER 344-TACONIC RATS MALE | | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|
| 500 mg/kg | | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

* TOTALS

ALIMENTARY SYSTEM

| | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|--------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Chronic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 1.0 |
| Vacuolization Cytoplasmic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 1.0 |
| Oral Mucosa | + | | | | | | | | | | | 1 |
| Cyst, Focal | X | | | | | | | | | | | 1 |

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|--------|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Histiocyte | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 10 3.0 |

INTEGUMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20321 - 01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
Time Report Requested: 11:06:13
First Dose M/F: 01/09/06 / 01/10/06
Lab: BAT

| FISCHER 344-TACONIC RATS MALE | | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|
| 500 mg/kg | | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

* TOTALS

NONE

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Histiocyte | 1 | | | | | | | | | | | 1 1.0 |
| Inflammation, Granulomatous | 1 | | 1 | 1 | 1 | | 1 | | 1 | | | 6 1.0 |
| Inflammation, Chronic Active | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | 1 | | | 8 1.1 |

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/15/2014

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

Time Report Requested: 11:06:13

CAS Number: 21850-44-2

First Dose M/F: 01/09/06 / 01/10/06

Lab: BAT

| DAY ON TEST | | | | | | | | | | | | |
|-------------------------------|--|---|---|---|---|---|---|---|---|---|---|--|
| FISCHER 344-TACONIC RATS MALE | | | | | | | | | | | | |
| 1000 mg/kg | | | | | | | | | | | | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

ALIMENTARY SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20321 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

CAS Number: 21850-44-2

Date Report Requested: 10/15/2014

Time Report Requested: 11:06:13

First Dose M/F: 01/09/06 / 01/10/06

Lab: BAT

| FISCHER 344-TACONIC RATS MALE | 1000 mg/kg | ANIMAL ID | DAY ON TEST | | | | | | | | | | | | | * TOTALS |
|--|------------|-----------|-------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------|----------|
| | | | | 0 0 9 3 | | |
| Stomach, Forestomach | | | | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| Stomach, Glandular Muscularis, Mineralization | | | | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| | | | | | | | | | | | | | | | 1 2.0 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| Heart Cardiomyopathy | | | | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| | | | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | | 10 1.1 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | |
| Adrenal Cortex | | | | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| Adrenal Medulla | | | | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| Islets, Pancreatic | | | | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| Parathyroid Gland | | | | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| Pituitary Gland | | | | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| Thyroid Gland | | | | + | + | + | + | + | + | + | + | + | + | + | 10 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

CAS Number: 21850-44-2

Date Report Requested: 10/15/2014

Time Report Requested: 11:06:13

First Dose M/F: 01/09/06 / 01/10/06

Lab: BAT

| | DAY ON TEST | | | | | | | | | | | * TOTALS |
|-----------------------------------|-------------|-------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
| | | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | |
| 1000 mg/kg | ANIMAL ID | 0 0 5 1 | 0 0 5 2 | 0 0 5 3 | 0 0 5 4 | 0 0 5 5 | 0 0 5 6 | 0 0 5 7 | 0 0 5 8 | 0 0 5 9 | 0 0 6 0 | * TOTALS |
| | | + + + + + + + + + + | | | | | | | | | | 10 |
| Epididymis | | + + + + + + + + + + | | | | | | | | | | 10 |
| Preputial Gland | | + + + + + + + + + + | | | | | | | | | | 10 |
| Inflammation | | 2 | 2 | | | | | 2 | | | | 3 2.0 |
| Prostate | | + + + + + + + + + + | | | | | | | | | | 10 |
| Seminal Vesicle | | + + + + + + + + + + | | | | | | | | | | 10 |
| Testes | | + + + + + + + + + + | | | | | | | | | | 10 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | |
| Bone Marrow | | + + + + + + + + + + | | | | | | | | | | 10 |
| Lymph Node, Mandibular | | + + + + + + + + + + | | | | | | | | | | 10 |
| Lymph Node, Mesenteric | | + + + + + + + + + + | | | | | | | | | | 10 |
| Infiltration Cellular, Histiocyte | | 3 3 3 3 3 3 3 3 3 3 3 3 | | | | | | | | | | 10 3.0 |
| Spleen | | + + + + + + + + + + | | | | | | | | | | 10 |
| Thymus | | + + + + + + + + + + | | | | | | | | | | 10 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | |
| Mammary Gland | | + + + + + + + + + + | | | | | | | | | | 10 |
| Skin | | + + + + + + + + + + | | | | | | | | | | 10 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

CAS Number: 21850-44-2

Date Report Requested: 10/15/2014

Time Report Requested: 11:06:13

First Dose M/F: 01/09/06 / 01/10/06

Lab: BAT

I .. Insufficient tissue

A .. Autolysis precludes evaluation

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
Time Report Requested: 11:06:13
First Dose M/F: 01/09/06 / 01/10/06
Lab: BAT

| FISCHER 344-TACONIC RATS MALE | | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|-------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|
| 1000 mg/kg | | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| * TOTALS | | | | | | | | | | | | |
| Mineralization | | | 1 | 1 | 1 | | 1 | | 1 | | 1 | |
| Nephropathy | | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 |
| Urinary Bladder | | | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic | | | | | | | | | | | | 1 |
| Muscularis, Mineralization | | | | | | | | | | | | 1 |
| *** END OF MALE DATA *** | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

CAS Number: 21850-44-2

Date Report Requested: 10/15/2014

Time Report Requested: 11:06:13

First Dose M/F: 01/09/06 / 01/10/06

Lab: BAT

| FISCHER 344-TACONIC RATS FEMALE 0 mg/kg | DAY ON TEST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|-------------|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344-TACONIC RATS FEMALE 0 mg/kg | ANIMAL ID | 9 | 9 | 9 | 9 | 9 | 5 | 9 | 9 | 9 | 9 |
| | | 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 |
| FISCHER 344-TACONIC RATS FEMALE 0 mg/kg | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISCHER 344-TACONIC RATS FEMALE 0 mg/kg | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |
| FISCHER 344-TACONIC RATS FEMALE 0 mg/kg | ANIMAL ID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

* TOTALS

ALIMENTARY SYSTEM

| | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Chronic | 1 | 1 | 1 | 1 | | 1 | 2 | 2 | 1 | | | 8 1.3 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | 10 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel | + | + | + | + | + | + | + | + | + | + | + | 10 |
|--------------|---|---|---|---|---|---|---|---|---|---|---|----|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01
 Test Type: 90-DAY
 Route: GAVAGE
 Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
 CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
 Time Report Requested: 11:06:13
 First Dose M/F: 01/09/06 / 01/10/06
 Lab: BAT

| FISCHER 344-TACONIC RATS FEMALE 0 mg/kg | DAY ON TEST | | | | | | | | | | | | |
|---|---|--|---|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
| | | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 5 1 | 0 0 9 3 | |
| ANIMAL ID | | | | | | | | | | | | | * TOTALS |
| | 0 0 0 0 0 0 1 2 3 4 5 6 7 | 0 0 0 0 0 0 1 2 3 4 5 6 7 8 | 0 0 0 0 0 0 1 2 3 4 5 6 7 8 9 | 0 0 0 0 0 0 1 2 3 4 5 6 7 8 9 0 | | | | | | | | | |

| | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Cardiomyopathy | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | | 9 1.0 |
| Inflammation, Chronic Active | | | | | | 1 | | | | | | | 1 1.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| NONE | | | | | | | | | | | | | |
|------|--|--|--|--|--|--|--|--|--|--|--|--|--|

GENITAL SYSTEM

| | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Chronic Active | 2 | 1 | | 1 | | | | | | | | | 3 1.3 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

CAS Number: 21850-44-2

Date Report Requested: 10/15/2014

Time Report Requested: 11:06:13

First Dose M/F: 01/09/06 / 01/10/06

Lab: BAT

DAY ON TEST

**FISCHER 344-TACONIC RATS
FEMALE****0 mg/kg**

ANIMAL ID

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 9 | 9 | 9 | 9 | 5 | 9 | 9 | 9 | 9 | 9 |
| 3 | 3 | 3 | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |

*** TOTALS****HEMATOPOIETIC SYSTEM**

Bone Marrow

+ + + + + + + + + + 10

Lymph Node, Mandibular

+ + + + + + + + + + 10

Lymph Node, Mesenteric
Infiltration Cellular, Histiocyte+ + + + + + + + + + 10
2 3 3 3 3 3 2 3 3 3 10 2.8Spleen
Lymphoid Follicle, Depletion Cellular+ + + + + + + + + + 10
2 10 2.0

Thymus

+ + + + + + + + + + 10

INTEGUMENTARY SYSTEM

Mammary Gland

+ + + + + + + + + + 10

Skin

+ + + + + + + + + + 10

MUSCULOSKELETAL SYSTEM

Bone

+ + + + + + + + + + 10

NERVOUS SYSTEM

Brain

+ + + + + + + + + + 10

RESPIRATORY SYSTEM

Lung

+ + + + + + + + + + 10

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

CAS Number: 21850-44-2

Date Report Requested: 10/15/2014

Time Report Requested: 11:06:13

First Dose M/F: 01/09/06 / 01/10/06

Lab: BAT

| FISCHER 344-TACONIC RATS FEMALE 0 mg/kg | DAY ON TEST ANIMAL ID | | | | | | | | | | | | | * TOTALS |
|---|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
| | | 0 0 9 3 | 0 0 9 3 | 0 0 9 3 | 0 0 5 1 | 0 0 9 3 | |
| Infiltration Cellular, Histiocyte | | 1 | 1 | | | | | | | | | | | 2 1.0 |
| Inflammation, Acute | | | | 2 | | | | | | | | | | 1 2.0 |
| Inflammation, Chronic Active | | | 1 | | | | | | | | | | | 1 1.0 |
| Nose | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Mononuclear Cell | | 1 | 1 | 1 | 1 | | | | | | | | 1 | 5 1.0 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | |
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | 1 | 1 1.0 |
| Inflammation, Chronic Active | | | | | | | | | | | | | 1 | 2 1.0 |
| Bilateral, Inflammation, Chronic Active | | | | | | | | | | | | | 2 | 1 2.0 |
| URINARY SYSTEM | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Mineralization | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 1.0 |
| Nephropathy | | | | | | | | | | | | | 1 | 2 1.0 |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

CAS Number: 21850-44-2

Date Report Requested: 10/15/2014

Time Report Requested: 11:06:13

First Dose M/F: 01/09/06 / 01/10/06

Lab: BAT

DAY ON TEST

FISCHER 344-TACONIC RATS
FEMALE

62.5 mg/kg

ANIMAL ID

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

* TOTALS

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

Lung

+

10

Infiltration Cellular, Histiocyte

Inflammation, Granulomatous

Inflammation, Chronic Active

1

1 1.0

3 1.3

4 1.0

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

CAS Number: 21850-44-2

Date Report Requested: 10/15/2014

Time Report Requested: 11:06:13

First Dose M/F: 01/09/06 / 01/10/06

Lab: BAT

| FISCHER 344-TACONIC RATS FEMALE 125 mg/kg | DAY ON TEST ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|--------------------------|----------|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| | | * TOTALS | | | | | | | | | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Liver | + | + | + | + | + | + | + | + | + | + | 8 |
| Inflammation, Chronic | 1 | 1 | 2 | 1 | 1 | 2 | 3 | 3 | | | 8 1.8 |

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | |
|------------|---|--|--|--|--|--|--|--|--|--|---|
| Ovary | + | | | | | | | | | | 1 |
| Left, Cyst | X | | | | | | | | | | 1 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|--------|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Histiocyte | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 10 2.9 |

INTEGUMENTARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

CAS Number: 21850-44-2

Date Report Requested: 10/15/2014

Time Report Requested: 11:06:13

First Dose M/F: 01/09/06 / 01/10/06

Lab: BAT

| FISCHER 344-TACONIC RATS FEMALE 125 mg/kg | DAY ON TEST ANIMAL ID | | | | | | | | | | | | |
|---|------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | 0 0 9 3 |
| | | 0 0 8 1 | 0 0 8 2 | 0 0 8 3 | 0 0 8 4 | 0 0 8 5 | 0 0 8 6 | 0 0 8 7 | 0 0 8 8 | 0 0 8 9 | 0 0 9 0 | | |

* TOTALS

MUSCULOSKELETAL SYSTEM

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

| Lung | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Infiltration Cellular, Histiocyte | | | | | 1 | | | | | | | 1 | 2 1.0 |
| Inflammation, Granulomatous | | | | 1 | 1 | 4 | | 1 | | 1 | 1 | | 6 1.5 |
| Inflammation, Chronic Active | | | | | 1 | | 2 | | 2 | | | | 3 1.7 |

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
Time Report Requested: 11:06:13
First Dose M/F: 01/09/06 / 01/10/06
Lab: BAT

| FISCHER 344-TACONIC RATS FEMALE 250mg/kg | DAY ON TEST ANIMAL ID | | | | | | | | | | | | |
|--|--------------------------|---|---|---|---|---|---|---|---|---|---|---|------------------|
| | | 0 0 9 3 | 0 0 9 3 |
| | | 0 0 0 0 0 0 0 0 1 9 1 | 0 0 0 0 0 0 0 0 2 9 2 | 0 0 0 0 0 0 0 0 1 9 3 | 0 0 0 0 0 0 0 0 1 9 4 | 0 0 0 0 0 0 0 0 1 9 5 | 0 0 0 0 0 0 0 0 1 9 6 | 0 0 0 0 0 0 0 0 1 9 7 | 0 0 0 0 0 0 0 0 1 9 8 | 0 0 0 0 0 0 0 0 1 9 9 | 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 | |

* TOTALS

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | 9 |
| Inflammation, Chronic | 1 | 3 | 1 | 1 | 2 | 1 | 2 | 1 | 3 | | | | 9 1.7 |

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Histiocyte | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 10 3.0 |

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20321 - 01

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/15/2014

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

CAS Number: 21850-44-2

Time Report Requested: 11:06:13

First Dose M/F: 01/09/06 / 01/10/06

Lab: BAT

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

| | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Histiocyte | | | | | | 1 | 1 | | | | | 2 1.0 |
| Inflammation, Granulomatous | 1 | 1 | | 1 | 1 | | 1 | 4 | | | | 6 1.5 |
| Inflammation, Chronic Active | 2 | 1 | 1 | 1 | 1 | | | | 1 | | | 6 1.2 |
| Metaplasia, Osseous | | | | | | 1 | | | | | | 1 1.0 |

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes e

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01
Test Type: 90-DAY
Route: GAVAGE
Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)
CAS Number: 21850-44-2

Date Report Requested: 10/15/2014
Time Report Requested: 11:06:13
First Dose M/F: 01/09/06 / 01/10/06
Lab: BAT

| FISCHER 344-TACONIC RATS FEMALE 500 mg/kg | DAY ON TEST ANIMAL ID | | | | | | | | | | | | |
|---|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | 0 0 9 3 |
| | | 0 0 1 0 1 |

* TOTALS

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Chronic | 2 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 10 1.4 |

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Infiltration Cellular, Histiocyte | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 10 3.0 |

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically M .. Missing tissue
X .. Lesion present A .. Autolysis precludes evaluation
I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

- 1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 20321 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

CAS Number: 21850-44-2

Date Report Requested: 10/15/2014

Time Report Requested: 11:06:13

First Dose M/F: 01/09/06 / 01/10/06

Lab: BAT

| FISCHER 344-TACONIC RATS FEMALE 500 mg/kg | DAY ON TEST ANIMAL ID | | | | | | | | | | | | |
|---|------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | 0 0 9 3 |
| | | 0 0 1 0 |

* TOTALS

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Inflammation, Granulomatous | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 1.0 |
| Inflammation, Chronic Active | 1 | 1 | 1 | 1 | 2 | | | | | | | | 6 1.2 |

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

CAS Number: 21850-44-2

Date Report Requested: 10/15/2014

Time Report Requested: 11:06:13

First Dose M/F: 01/09/06 / 01/10/06

Lab: BAT

**FISCHER 344-TACONIC RATS
FEMALE
1000 mg/kg**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

*** TOTALS**

ALIMENTARY SYSTEM

CARDIOVASCULAR SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

CAS Number: 21850-44-2

Date Report Requested: 10/15/2014

Time Report Requested: 11:06:13

First Dose M/F: 01/09/06 / 01/10/06

Lab: BAT

| FISCHER 344-TACONIC RATS FEMALE 1000 mg/kg | DAY ON TEST ANIMAL ID | | | | | | | | | | | * TOTALS |
|--|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
| | | 0 0 9 3 | |
| Blood Vessel | | + | + | + | + | + | + | + | + | + | + | 10 |
| Heart | | + | + | + | + | + | + | + | + | + | + | 10 |
| Cardiomyopathy | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 1.0 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | |
| Adrenal Cortex | | + | + | + | + | + | + | + | + | + | + | 10 |
| Adrenal Medulla | | + | + | + | + | + | + | + | + | + | + | 10 |
| Islets, Pancreatic | | + | + | + | + | + | + | + | + | + | + | 10 |
| Parathyroid Gland | | + | + | + | + | + | + | + | + | + | + | 10 |
| Pituitary Gland Cyst | | + | + | + | + | + | + | + | + | + | + | 10 1 |
| Thyroid Gland | | X | | | | | | | | | | |
| Thyroid Gland | | + | + | + | + | + | + | + | + | + | + | 10 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | |
| Clitoral Gland | | + | + | + | + | + | + | + | + | + | + | 10 |
| Ovary | | + | + | + | + | + | + | + | + | + | + | 10 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Tetrabromobisphenol A-bis(2,3-dibromopropyl ether)

CAS Number: 21850-44-2

Date Report Requested: 10/15/2014

Time Report Requested: 11:06:13

First Dose M/F: 01/09/06 / 01/10/06

Lab: BAT

| FISCHER 344-TACONIC RATS FEMALE 1000 mg/kg | DAY ON TEST ANIMAL ID | | | | | | | | | | | | | * TOTALS |
|---|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|
| | | 0 0 9 3 | |
| Uterus | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | |
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mandibular | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mesenteric Infiltration Cellular, Histiocyte | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| 3 3 | 3 3 | 3 3 | 3 3 | 3 3 | 3 3 | 3 3 | 3 3 | 3 3 | 3 3 | 3 3 | 3 3 | 3 3 | 3 3 | 10 3.0 |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Thymus | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | |
| Mammary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| Skin | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | |
| Bone | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | |
| Brain | | + | + | + | + | + | + | + | + | + | + | + | + | 10 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20321 - 01

Test Type: 90-DAY

Route: GAVAGE

Species/Strain: RATS/F344/N Tac

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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Lab: BAT

| FISCHER 344-TACONIC RATS FEMALE 1000 mg/kg | DAY ON TEST | | | | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
| | | 0 0 9 3 | 0 0 9 3 |
| ANIMAL ID | | | | | | | | | | | * TOTALS |
| | 0 0 1 1 1 | |
| Lung | + + + + + + + + + + | | | | | | | | | | 10 |
| Inflammation, Granulomatous | | 1 | 1 | | | | 2 | 1 | 2 | | 5 1.4 |
| Inflammation, Chronic Active | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | | | 8 1.4 |
| Bronchiole, Metaplasia, Squamous | | | | | | | 1 | | | | 1 1.0 |
| Nose | + + + + + + + + + + | | | | | | | | | | 10 |
| Squamous Epithelium, Hyperplasia | | | | | | | 1 | | | | 1 1.0 |
| Trachea | + + + + + + + + + + | | | | | | | | | | 10 |
| Infiltration Cellular, Mononuclear Cell | 1 | | 1 | 1 | | 1 | | | | | 4 1.0 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | |
| Eye | + + + + + + + + + + | | | | | | | | | | 10 |
| Harderian Gland | + + + + + + + + + + | | | | | | | | | | 10 |
| Inflammation, Chronic Active | 1 | 1 | | | | 1 | | | | | 3 1.0 |
| Bilateral, Infiltration Cellular, Mononuclear Cell | | | | | | 1 | | | | | 1 1.0 |
| URINARY SYSTEM | | | | | | | | | | | |
| Kidney | + + + + + + + + + + | | | | | | | | | | 10 |
| Infiltration Cellular, Mononuclear Cell | | | | | | | 1 | | | | 1 1.0 |
| Mineralization | 1 | 1 | 1 | | | 1 | 1 | | | | 5 1.0 |
| Nephropathy | | | | | | 1 | | | | | 1 1.0 |
| Urinary Bladder | + + + + + + + + + + | | | | | | | | | | 10 |

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