

TDMS No. 20537 - 02
Test Type: 90-DAY
Route: INTRADUCTAL CANNULATION
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Adenoviral Vector (AdhAQP1)
CAS Number: ADNIRVECAQP

Date Report Requested: 09/10/2009
Time Report Requested: 11:33:57
First Dose M/F: NA / 07/25/05
Lab: MBA

F1_R2_3Wk_SSAC

C Number: C20537
Lock Date: 11/19/2007
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25017 SSAC
Removal Date Range: ALL
Treatment Groups: Include 007 2-8ADHAQP1COHTB Include 012 8-9ADHAQP1COHTB Include 017 2-11ADHAQP1COHTB
Include 021 VEHCONTRCOHRTB
Study Gender: Female
TDMSE Version: 2.1.0

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 Adenoviral Vector (AdhAQP1)
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| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------------|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 |
| <hr/> | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 |
| 2-8ADHAQP1COHTB | 1 | 1 | 1 | 1 | 1 |
| | 3 | 3 | 3 | 3 | 3 |
| | 1 | 2 | 3 | 4 | 5 |
| | * TOTALS | | | | |

ALIMENTARY SYSTEM

| | | | | | | |
|--|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | 5 |
| Intestine Large, Cecum | + | + | + | + | + | 5 |
| Intestine Large, Colon | + | + | + | + | + | 5 |
| Intestine Large, Rectum | + | + | + | + | + | 5 |
| Intestine Small, Duodenum | + | + | + | + | + | 5 |
| Intestine Small, Ileum | + | + | + | + | + | 5 |
| Intestine Small, Jejunum | + | + | + | + | + | 5 |
| Liver | + | + | + | + | + | 5 |
| Oral Mucosa | + | + | + | + | + | 5 |
| Pancreas | + | + | + | + | + | 5 |
| Salivary Glands | + | + | + | + | + | 5 |
| Right, Submandibular Gland, Inflammation | | | 1 | | 1 | 2 1.0 |
| Right, Submandibular Gland, Regeneration | 2 | 2 | 2 | 2 | 3 | 5 2.2 |

* .. 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

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------|---|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 5 | |
| <hr/> | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | |
| 2-8ADHAQP1COHTB | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 | |
| | 3 | 3 | 3 | 3 | 3 | |
| | 1 | 2 | 3 | 4 | 5 | * TOTALS |
| <hr/> | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| Stomach, Glandular | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| Tongue | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | |
| <hr/> | | | | | | |
| Blood Vessel | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| Heart | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| ENDOCRINE SYSTEM | | | | | | |
| <hr/> | | | | | | |
| Adrenal Cortex | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| Adrenal Medulla | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| Parathyroid Gland | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| Pituitary Gland | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| Thyroid Gland | + | + | + | + | + | 5 |

* .. 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

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

| | | | | | |
|--------------------------------|-----------------|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 |
| | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 |
| 2-8ADHAQP1COHTB | 1 | 1 | 1 | 1 | 1 |
| | 3 | 3 | 3 | 3 | 3 |
| | 1 | 2 | 3 | 4 | 5 |
| | * TOTALS | | | | |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | |
|----------------|---|---|---|---|---|----------|
| Clitoral Gland | + | + | + | + | + | 5 |
| Ovary | + | + | + | + | + | 5 |
| Uterus | + | + | + | + | + | 5 |

HEMATOPOIETIC SYSTEM

| | | | | | | |
|------------------------|---|---|---|---|---|----------|
| Bone Marrow | + | + | + | + | + | 5 |
| Lymph Node, Mandibular | M | M | M | M | M | 0 |
| Lymph Node, Mesenteric | + | + | + | + | + | 5 |
| Spleen | + | + | + | + | + | 5 |
| Thymus | + | + | + | + | + | 5 |

* .. 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

| | | | | | | |
|--------------------------------|---|---|---|---|---|-----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 5 | |
| | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | |
| 2-8ADHAQP1COHTB | 1 | 1 | 1 | 1 | 1 | |
| | 3 | 3 | 3 | 3 | 3 | |
| | 1 | 2 | 3 | 4 | 5 | * TOTALS |

INTEGUMENTARY SYSTEM

| | | | | | | |
|---------------|---|---|---|---|---|----------|
| Mammary Gland | + | + | + | + | + | 5 |
| Skin | + | + | + | + | + | 5 |

MUSCULOSKELETAL SYSTEM

| | | | | | | |
|------|---|---|---|---|---|----------|
| Bone | + | + | + | + | + | 5 |
|------|---|---|---|---|---|----------|

NERVOUS SYSTEM

| | | | | | | |
|-------|---|---|---|---|---|----------|
| Brain | + | + | + | + | + | 5 |
|-------|---|---|---|---|---|----------|

RESPIRATORY SYSTEM

| | | | | | | |
|--------------|---|---|---|---|---|--------------|
| Lung | + | + | + | + | + | 5 |
| Nose | + | + | + | + | + | 5 |
| Trachea | + | + | + | + | + | 5 |
| Inflammation | | | | 2 | | 1 2.0 |

* .. 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

| | | | | | | |
|--------------------------------|---|---|---|---|---|-----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 5 | |
| | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | |
| 2-8ADHAQP1COHTB | 1 | 1 | 1 | 1 | 1 | |
| | 3 | 3 | 3 | 3 | 3 | |
| | 1 | 2 | 3 | 4 | 5 | * TOTALS |

SPECIAL SENSES SYSTEM

| | | | | | | |
|-----------------|---|---|---|---|---|----------|
| Eye | + | + | + | + | + | 5 |
| Harderian Gland | + | + | + | + | + | 5 |

URINARY SYSTEM

| | | | | | | |
|-------------------------------|---|---|---|---|---|--------------|
| Kidney | + | + | + | + | + | 5 |
| Nephropathy, Diffuse, Chronic | | | 2 | | | 1 2.0 |
| Urinary Bladder | + | + | + | + | + | 5 |

* .. 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

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------------|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 |
| <hr/> | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 |
| 8-9ADHAQP1COHTB | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 6 |
| | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | |

ALIMENTARY SYSTEM

| | | | | | | | |
|--|---|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | 5 | |
| Intestine Large, Cecum | + | + | + | + | + | 5 | |
| Intestine Large, Colon | + | + | + | + | + | 5 | |
| Intestine Large, Rectum | + | + | + | + | + | 5 | |
| Intestine Small, Duodenum | + | + | + | + | + | 5 | |
| Intestine Small, Ileum | + | + | + | + | + | 5 | |
| Intestine Small, Jejunum | + | + | + | + | + | 5 | |
| Liver | + | + | + | + | + | 5 | |
| Inflammation | | | | 1 | | | 1 1.0 |
| Oral Mucosa | + | + | + | + | + | 5 | |
| Pancreas | + | + | + | + | + | 5 | |
| Salivary Glands | + | + | + | + | + | 5 | |
| Parotid Gland, Right, Necrosis | | | 1 | | | | 1 1.0 |
| Right, Submandibular Gland, Degeneration | 1 | | | | | | 1 1.0 |

* .. 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

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BLANK .. Not examined microscopically

Page 7

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 |
| <hr/> | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 |
| 8-9ADHAQP1COHTB | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 6 |
| | 6 | 7 | 8 | 9 | 0 |

*** TOTALS**

| | | | | | | |
|--|---|---|---|---|---|--------------|
| Right, Submandibular Gland, Inflammation | 2 | 1 | 1 | 3 | 2 | 5 1.8 |
| Right, Submandibular Gland, Regeneration | 2 | 2 | 2 | 2 | 2 | 5 2.0 |

| | | | | | | |
|----------------------|---|---|---|---|---|----------|
| Stomach, Forestomach | + | + | + | + | + | 5 |
|----------------------|---|---|---|---|---|----------|

| | | | | | | |
|-----------------------------------|---|---|---|---|---|----------------|
| Stomach, Glandular Mineralization | + | + | + | + | + | 5 1 1.0 |
|-----------------------------------|---|---|---|---|---|----------------|

| | | | | | | |
|--------|---|---|---|---|---|----------|
| Tongue | + | + | + | + | + | 5 |
|--------|---|---|---|---|---|----------|

CARDIOVASCULAR SYSTEM

| | | | | | | |
|--------------|---|---|---|---|---|----------|
| Blood Vessel | + | + | + | + | + | 5 |
|--------------|---|---|---|---|---|----------|

| | | | | | | |
|-------|---|---|---|---|---|----------|
| Heart | + | + | + | + | + | 5 |
|-------|---|---|---|---|---|----------|

ENDOCRINE SYSTEM

| | | | | | | |
|----------------|---|---|---|---|---|----------|
| Adrenal Cortex | + | + | + | + | + | 5 |
|----------------|---|---|---|---|---|----------|

| | | | | | | |
|-----------------|---|---|---|---|---|----------|
| Adrenal Medulla | + | + | + | + | + | 5 |
|-----------------|---|---|---|---|---|----------|

| | | | | | | |
|--------------------|---|---|---|---|---|----------|
| Islets, Pancreatic | + | + | + | + | + | 5 |
|--------------------|---|---|---|---|---|----------|

| | | | | | | |
|-------------------|---|---|---|---|---|----------|
| Parathyroid Gland | + | + | + | + | + | 5 |
|-------------------|---|---|---|---|---|----------|

* .. 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

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 |
| | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 |
| 8-9ADHAQP1COHTB | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 6 |
| | 6 | 7 | 8 | 9 | 0 |
| | | | | | * TOTALS |

| | | | | | | |
|-----------------|---|---|---|---|---|----------|
| Pituitary Gland | + | + | + | + | + | 5 |
| Thyroid Gland | + | + | + | + | + | 5 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | |
|----------------|---|---|---|---|---|----------|
| Clitoral Gland | + | + | + | + | + | 5 |
| Ovary | + | + | + | + | + | 5 |
| Uterus | + | + | + | + | + | 5 |

HEMATOPOIETIC SYSTEM

| | | | | | | |
|------------------------|---|---|---|---|---|----------|
| Bone Marrow | + | + | + | + | + | 5 |
| Lymph Node, Mandibular | M | M | M | M | M | 0 |
| Lymph Node, Mesenteric | + | + | + | + | + | 5 |
| Spleen | + | + | + | + | + | 5 |

* .. 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

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------|---|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 5 | |
| <hr/> | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | |
| 8-9ADHAQP1COHTB | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 6 | |
| | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | * TOTALS |
| Thymus | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | |
| Mammary Gland | + | + | + | + | + | 5 |
| Skin | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | |
| Bone | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| NERVOUS SYSTEM | | | | | | |
| Brain | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| RESPIRATORY SYSTEM | | | | | | |
| Lung | + | + | + | + | + | 5 |
| Nose | + | + | + | + | + | 5 |
| Trachea | + | + | + | + | + | 5 |

* .. 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

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| | | | | | | |
|--------------------------------|---|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 | |
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 5 | |
| | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | |
| 8-9ADHAQP1COHTB | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 6 | |
| | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | * TOTALS |

SPECIAL SENSES SYSTEM

| | | | | | | |
|-----------------|---|---|---|---|---|----------|
| Eye | + | + | + | + | + | 5 |
| Harderian Gland | + | + | + | + | + | 5 |

URINARY SYSTEM

| | | | | | | |
|-----------------|---|---|---|---|---|----------|
| Kidney | + | + | + | + | + | 5 |
| Urinary Bladder | + | + | + | + | + | 5 |

* .. 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

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------------|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 |
| <hr/> | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 |
| 2-11ADHAQP1COHTB | 1 | 1 | 1 | 1 | 1 |
| | 8 | 8 | 8 | 8 | 8 |
| | 1 | 2 | 3 | 4 | 5 |
| | * TOTALS | | | | |

ALIMENTARY SYSTEM

| | | | | | | |
|--|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | 5 |
| Intestine Large, Cecum | + | + | + | + | + | 5 |
| Intestine Large, Colon | + | + | + | + | + | 5 |
| Intestine Large, Rectum | + | + | + | + | + | 5 |
| Intestine Small, Duodenum | + | + | + | + | + | 5 |
| Intestine Small, Ileum | + | + | + | + | + | 5 |
| Intestine Small, Jejunum | + | + | + | + | + | 5 |
| Liver | + | + | + | + | + | 5 |
| Oral Mucosa | + | + | + | + | + | 5 |
| Pancreas | + | + | + | + | + | 5 |
| Salivary Glands | | + | + | + | + | 4 |
| Right, Submandibular Gland, Infiltration | | 2 | 2 | | | 2 2.0 |
| Cellular, Lymphocyte | | | | | | |
| Right, Submandibular Gland, Inflammation | | 2 | 2 | 2 | 3 | 4 2.3 |

* .. 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

Page 12

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------------|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 |
| <hr/> | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 |
| 2-11ADHAQP1COHTB | 1 | 1 | 1 | 1 | 1 |
| | 8 | 8 | 8 | 8 | 8 |
| | 1 | 2 | 3 | 4 | 5 |
| | * TOTALS | | | | |

| | | | | | |
|--|---|---|---|---|--------------|
| Right, Submandibular Gland, Regeneration | 2 | 3 | 3 | 3 | 4 2.8 |
| Stomach, Forestomach | + | + | + | + | 5 |
| Stomach, Glandular | + | + | + | + | 5 |
| Tongue | + | + | + | + | 5 |

CARDIOVASCULAR SYSTEM

| | | | | | |
|----------------|---|---|---|---|--------------|
| Blood Vessel | + | + | + | + | 5 |
| Heart | + | + | + | + | 5 |
| Cardiomyopathy | | 1 | | 1 | 2 1.0 |

ENDOCRINE SYSTEM

| | | | | | |
|--------------------|---|---|---|---|----------|
| Adrenal Cortex | + | + | + | + | 5 |
| Adrenal Medulla | + | + | + | + | 5 |
| Islets, Pancreatic | + | + | + | + | 5 |
| Parathyroid Gland | M | + | + | + | 4 |

* .. 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

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------------|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 |
| <hr/> | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 |
| 2-11ADHAQP1COHTB | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 1 | 1 | 1 | 1 | 1 |
| | 8 | 8 | 8 | 8 | 8 |
| | 1 | 2 | 3 | 4 | 5 |
| | * TOTALS | | | | |

| | | | | | | |
|-----------------|---|---|---|---|---|----------|
| Pituitary Gland | + | + | + | + | + | 5 |
| Thyroid Gland | M | + | + | + | + | 4 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | |
|----------------|---|---|---|---|---|----------|
| Clitoral Gland | + | + | + | + | + | 5 |
| Ovary | + | + | + | + | + | 5 |
| Uterus | + | + | + | + | + | 5 |

HEMATOPOIETIC SYSTEM

| | | | | | | |
|------------------------|---|---|---|---|---|--------------|
| Bone Marrow | + | + | + | + | + | 5 |
| Lymph Node, Mandibular | M | M | M | M | M | 0 |
| Lymph Node, Mesenteric | + | + | + | + | + | 5 |
| Spleen | + | + | + | + | + | 5 |
| Depletion Lymphoid | | | | 2 | | 1 2.0 |

* .. 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

| | | | | | | |
|--------------------------------|---|---|---|---|---|-----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 5 | |
| | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | |
| 2-11ADHAQP1COHTB | 1 | 1 | 1 | 1 | 1 | |
| | 8 | 8 | 8 | 8 | 8 | |
| | 1 | 2 | 3 | 4 | 5 | * TOTALS |

| | | | | | | |
|--------|---|---|---|---|---|----------|
| Thymus | + | + | + | + | + | 5 |
|--------|---|---|---|---|---|----------|

INTEGUMENTARY SYSTEM

| | | | | | | |
|---------------|---|---|---|---|---|----------|
| Mammary Gland | + | + | + | + | + | 5 |
| Skin | + | + | + | + | + | 5 |

MUSCULOSKELETAL SYSTEM

| | | | | | | |
|------|---|---|---|---|---|----------|
| Bone | + | + | + | + | + | 5 |
|------|---|---|---|---|---|----------|

NERVOUS SYSTEM

| | | | | | | |
|-------|---|---|---|---|---|----------|
| Brain | + | + | + | + | + | 5 |
|-------|---|---|---|---|---|----------|

RESPIRATORY SYSTEM

| | | | | | | |
|---------|---|---|---|---|---|----------|
| Lung | + | + | + | + | + | 5 |
| Nose | + | + | + | + | + | 5 |
| Trachea | + | + | + | + | + | 5 |

* .. 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

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------------|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 |
| <hr/> | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 |
| 2-11ADHAQP1COHTB | 1 | 1 | 1 | 1 | 1 |
| | 8 | 8 | 8 | 8 | 8 |
| | 1 | 2 | 3 | 4 | 5 |
| | * TOTALS | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | |
|-----------------|---|---|---|---|---|----------|
| Eye | + | + | + | + | + | 5 |
| Harderian Gland | + | + | + | + | + | 5 |

URINARY SYSTEM

| | | | | | | |
|-----------------|---|---|---|---|---|----------|
| Kidney | + | + | + | + | + | 5 |
| Urinary Bladder | + | + | + | + | + | 5 |

* .. 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

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1) Minimal 3) Moderate

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| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------------|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 |
| <hr/> | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 |
| VEHCONTRCOHRTB | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 1 |
| | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | |

ALIMENTARY SYSTEM

| | | | | | | |
|--|---|---|---|---|---|-------|
| Esophagus | + | + | + | + | + | 5 |
| Intestine Large, Cecum | + | + | + | + | + | 5 |
| Intestine Large, Colon | + | + | + | + | + | 5 |
| Intestine Large, Rectum | + | + | + | + | + | 5 |
| Intestine Small, Duodenum | + | + | + | + | + | 5 |
| Intestine Small, Ileum | + | + | + | + | + | 5 |
| Intestine Small, Jejunum | + | + | + | + | + | 5 |
| Liver | + | + | + | + | + | 5 |
| Oral Mucosa | + | + | + | + | + | 5 |
| Pancreas | + | + | + | + | + | 5 |
| Salivary Glands | + | + | + | + | + | 5 |
| Left, Submandibular Gland, Regeneration | | 2 | | | | 1 2.0 |
| Right, Submandibular Gland, Inflammation | | | 2 | | | 1 2.0 |
| Right, Submandibular Gland, Regeneration | 3 | | 3 | 2 | 1 | 4 2.3 |

* .. 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

TDMS No. 20537 - 02
 Test Type: 90-DAY
 Route: INTRADUCTAL CANNULATION
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Adenoviral Vector (AdhAQP1)
 CAS Number: ADNVIRVECAQP

Date Report Requested: 09/10/2009
 Time Report Requested: 11:33:57
 First Dose M/F: NA / 07/25/05
 Lab: MBA

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|-----------------|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 |
| <hr/> | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 |
| VEHCONTRCOHRTB | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 1 |
| | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | |

| | | | | | | |
|-----------------------------------|---|---|---|---|---|-------|
| Stomach, Forestomach | + | + | + | + | + | 5 |
| Stomach, Glandular Mineralization | + | + | + | + | + | 5 |
| | | 1 | | 2 | | 2 1.5 |
| Tongue | + | + | + | + | + | 5 |

CARDIOVASCULAR SYSTEM

| | | | | | | |
|--------------|---|---|---|---|---|---|
| Blood Vessel | + | + | + | + | + | 5 |
| Heart | + | + | + | + | + | 5 |

ENDOCRINE SYSTEM

| | | | | | | |
|--------------------|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | 5 |
| Adrenal Medulla | + | + | + | + | + | 5 |
| Islets, Pancreatic | + | + | + | + | + | 5 |
| Parathyroid Gland | + | + | + | + | + | 5 |
| Pituitary Gland | I | + | + | + | + | 4 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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 Page 18

| | | | | | | |
|--------------------------------|---|---|---|---|---|-----------------|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 5 | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | |
| VEHCONTRCOHRTB | 3 | 3 | 3 | 3 | 3 | |
| | 0 | 0 | 0 | 0 | 1 | |
| | 6 | 7 | 8 | 9 | 0 | * TOTALS |

| | | | | | | |
|---------------|---|---|---|---|---|----------|
| Thyroid Gland | + | + | + | + | + | 5 |
|---------------|---|---|---|---|---|----------|

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | |
|----------------|---|---|---|---|---|--------------|
| Clitoral Gland | + | + | + | + | + | 5 |
| Ovary | + | + | + | + | + | 5 |
| Uterus | + | + | + | + | + | 5 |
| Dilatation | | | | | 3 | 1 3.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | |
|------------------------|---|---|---|---|---|----------|
| Bone Marrow | + | + | + | + | + | 5 |
| Lymph Node, Mandibular | M | M | M | M | M | 0 |
| Lymph Node, Mesenteric | + | + | + | + | + | 5 |
| Spleen | + | + | + | + | + | 5 |

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x .. Lesion present

I .. Insufficient tissue

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Page 19

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1) Minimal 3) Moderate

2) Mild 4) Marked

| DAY ON TEST | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------|---|---|---|---|---|-----------------|
| | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 1 | 1 | 1 | 1 | |
| | 5 | 5 | 5 | 5 | 5 | |
| <hr/> | | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | |
| VEHCONTRCOHRTB | 3 | 3 | 3 | 3 | 3 | |
| | 0 | 0 | 0 | 0 | 1 | |
| | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | * TOTALS |
| Thymus | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | |
| Mammary Gland | + | + | + | + | + | 5 |
| Skin | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | |
| Bone | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| NERVOUS SYSTEM | | | | | | |
| Brain | + | + | + | + | + | 5 |
| <hr/> | | | | | | |
| RESPIRATORY SYSTEM | | | | | | |
| Lung | + | + | + | + | + | 5 |
| Nose | + | + | + | + | + | 5 |
| Trachea | + | + | + | + | + | 5 |

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| | | | | | |
|--------------------------------|-----------------|---|---|---|---|
| DAY ON TEST | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 |
| | 1 | 1 | 1 | 1 | 1 |
| | 5 | 5 | 5 | 5 | 5 |
| | | | | | |
| FISCHER 344 RATS FEMALE | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 |
| VEHCONTRCOHRTB | 3 | 3 | 3 | 3 | 3 |
| | 0 | 0 | 0 | 0 | 1 |
| | 6 | 7 | 8 | 9 | 0 |
| | * TOTALS | | | | |

SPECIAL SENSES SYSTEM

| | | | | | | |
|-----------------|---|---|---|---|---|---|
| Eye | + | + | + | + | + | 5 |
| Harderian Gland | + | + | + | + | + | 5 |

URINARY SYSTEM

| | | | | | | |
|-----------------|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | 5 |
| Urinary Bladder | + | + | + | + | + | 5 |

*** END OF REPORT ***

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