

**Experiment Number:** 20303 - 05  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
**CAS Number:** 75-35-4

**Date Report Requested:** 12/12/2011  
**Time Report Requested:** 09:47:55  
**First Dose M/F:** 06/06/05 / 06/06/05  
**Lab:** BNW

F1\_R2

**NTP Study Number:** C20303  
**Lock Date:** 05/09/2008  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.5.0.0\_004  
**PWG Approval Date:** NONE

Note: Animals arranged according to days on test.

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
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 Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | males<br>(cont...)    |                       |                       |                       |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                       | 0<br>3<br>6<br>7      | 0<br>4<br>9<br>2      | 0<br>5<br>1<br>4      | 0<br>5<br>5<br>1      | 0<br>5<br>6<br>2      | 0<br>5<br>6<br>4      | 0<br>5<br>9<br>1      | 0<br>6<br>1<br>4      | 0<br>6<br>2<br>0      | 0<br>6<br>3<br>5      | 0<br>6<br>4<br>5      | 0<br>6<br>5<br>4      | 0<br>6<br>6<br>1      | 0<br>6<br>6<br>9      | 0<br>6<br>7<br>0      | 0<br>6<br>7<br>5      | 0<br>6<br>7<br>6      | 0<br>6<br>7<br>7      | 0<br>6<br>7<br>7      | 0<br>6<br>8<br>6      | 0<br>6<br>8<br>8      | 0<br>6<br>9<br>0      | 0<br>6<br>9<br>5      |                       | 0<br>7<br>0<br>2      | 0<br>7<br>1<br>7      | 0<br>7<br>1<br>7      | 0<br>7<br>1<br>9      |
| <b>Control</b>        | ANIMAL ID             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
|                       | 0<br>0<br>0<br>1<br>9 | 0<br>0<br>0<br>2<br>6 | 0<br>0<br>0<br>0<br>5 | 0<br>0<br>0<br>2<br>7 | 0<br>0<br>0<br>5<br>0 | 0<br>0<br>0<br>3<br>5 | 0<br>0<br>0<br>3<br>2 | 0<br>0<br>0<br>3<br>7 | 0<br>0<br>0<br>1<br>6 | 0<br>0<br>0<br>2<br>9 | 0<br>0<br>0<br>4<br>3 | 0<br>0<br>0<br>4<br>4 | 0<br>0<br>0<br>0<br>2 | 0<br>0<br>0<br>0<br>5 | 0<br>0<br>0<br>1<br>7 | 0<br>0<br>0<br>4<br>5 | 0<br>0<br>0<br>2<br>5 | 0<br>0<br>0<br>0<br>4 | 0<br>0<br>0<br>2<br>1 | 0<br>0<br>0<br>2<br>2 | 0<br>0<br>0<br>1<br>6 | 0<br>0<br>0<br>3<br>0 | 0<br>0<br>0<br>1<br>6 | 0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>6 | 0<br>0<br>0<br>4<br>6 | 0<br>0<br>0<br>1<br>6 | 0<br>0<br>0<br>4<br>3 |

**ALIMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon    | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | A | I | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Mesentery                 |   |   |   |   | + | + |   | + |   |   |   | + |   |   |   |   |   | + |   |   |   |   |   |   |   |   | + |   |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular        | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Tooth                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**CARDIOVASCULAR SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | males<br>(cont...) |                  |                  |                  |                  |  |  |
|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|------------------|------------------|------------------|--|--|
|                       | 0<br>3<br>6<br>7 | 0<br>4<br>9<br>2 | 0<br>5<br>1<br>4 | 0<br>5<br>5<br>1 | 0<br>5<br>6<br>2 | 0<br>5<br>6<br>4 | 0<br>5<br>9<br>1 | 0<br>6<br>1<br>4 | 0<br>6<br>2<br>0 | 0<br>6<br>3<br>5 | 0<br>6<br>4<br>5 | 0<br>6<br>5<br>4 | 0<br>6<br>6<br>1 | 0<br>6<br>6<br>9 | 0<br>6<br>7<br>0 | 0<br>6<br>7<br>5 | 0<br>6<br>7<br>6 | 0<br>6<br>7<br>7 | 0<br>6<br>8<br>9 | 0<br>6<br>9<br>0 |                    | 0<br>7<br>0<br>5 | 0<br>7<br>1<br>2 | 0<br>7<br>1<br>7 | 0<br>7<br>1<br>9 |  |  |
| Control               | 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                | 2                | 0                | 2                | 5                | 3                | 3                | 3                | 1                | 2                | 4                | 4                | 0                | 1                | 4                | 2                | 2                | 0                | 2                | 1                | 3                  | 1                | 0                | 4                |                  |  |  |
| 9                     | 6                | 5                | 7                | 0                | 5                | 2                | 7                | 6                | 9                | 3                | 4                | 2                | 5                | 7                | 5                | 4                | 1                | 2                | 2                | 6                | 0                  | 6                | 6                | 3                |                  |  |  |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Heart                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pericardium, Osteosarcoma, Metastatic, Bone | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ENDOCRINE SYSTEM**

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex             | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Adenoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Adrenal Medulla            | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Pheochromocytoma Benign    |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |
| Pheochromocytoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Islets, Pancreatic         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Adenoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Carcinoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Parathyroid Gland          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Pituitary Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Pars Distalis, Adenoma     |   |   |   |   | X | X |   | X | X | X | X | X | X |   | X |   | X | X | X | X | X | X |   | X | X |
| Thyroid Gland              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| C-cell, Adenoma            |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| C-cell, Carcinoma          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

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Vinylidene chloride  
 CAS Number: 75-35-4

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 Lab: BNW

| FISCHER 344 RATS MALE<br>Control  | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | males<br>(cont...) |                  |                  |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|
|   | 0<br>3<br>6<br>7 | 0<br>4<br>9<br>2 | 0<br>5<br>1<br>4 | 0<br>5<br>5<br>1 | 0<br>5<br>6<br>2 | 0<br>5<br>6<br>4 | 0<br>5<br>9<br>1 | 0<br>6<br>1<br>4 | 0<br>6<br>2<br>0 | 0<br>6<br>3<br>5 | 0<br>6<br>4<br>5 | 0<br>6<br>5<br>4 | 0<br>6<br>6<br>1 | 0<br>6<br>6<br>9 | 0<br>6<br>7<br>0 | 0<br>6<br>7<br>5 | 0<br>6<br>7<br>6 | 0<br>6<br>7<br>7 | 0<br>6<br>8<br>9 | 0<br>7<br>0<br>5 |           |                    | 0<br>7<br>1<br>2 | 0<br>7<br>1<br>7 |
| Epididymis  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                  | +                | +                |
| Preputial Gland<br>Adenoma<br>Carcinoma                                       | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                  | +                | +                |
| Prostate  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                  | +                | +                |
| Seminal Vesicle   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | A                | A                | +                | +         | +                  | +                | +                |
| Testes<br>Bilateral, Interstitial Cell, Adenoma<br>Interstitial Cell, Adenoma | +                | +                | +                | +                | +                | +                | X                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | X         | X                  | X                | +                |
| <b>HEMATOPOIETIC SYSTEM</b>   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |                  |                  |
| Bone Marrow   | +                | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                  | +                | +                |
| Lymph Node  |                  |                  |                  |                  |                  | +                | +                |                  |                  |                  |                  | +                |                  |                  |                  |                  |                  |                  |                  | +                | +         | +                  |                  |                  |
| Lymph Node, Bronchial<br>Osteosarcoma, Metastatic, Bone                       | +                | M                | +                | +                | M                | +                | M                | +                | M                | M                | M                | M                | M                | M                | M                | M                | M                | M                | M                | M                | M         | M                  | M                | M                |
| Lymph Node, Mandibular  | M                | M                | M                | +                | M                | M                | M                | M                | M                | M                | M                | M                | M                | M                | M                | M                | M                | M                | M                | M                | M         | M                  | M                | M                |
| Lymph Node, Mediastinal   | +                | M                | +                | M                | +                | M                | +                | M                | M                | M                | M                | +                | M                | M                | +                | +                | M                | M                | M                | M                | +         | +                  | +                | +                |
| Lymph Node, Mesenteric  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                  | +                | +                |
| Spleen  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                  | +                | +                |
| Thymus  | +                | +                | +                | +                | +                | I                | +                | +                | M                | +                | +                | +                | M                | +                | M                | +                | +                | +                | +                | +                | +         | +                  | +                | M                |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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Vinylidene chloride

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|                              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                              | DAY ON TEST | 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 |   |
| <b>FISCHER 344 RATS MALE</b> |             | 3 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                              |             | 6 | 9 | 1 | 5 | 6 | 6 | 9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 7 | 7 | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| <b>Control</b>               | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                              |             | 1 | 2 | 0 | 2 | 5 | 3 | 3 | 3 | 1 | 2 | 4 | 4 | 0 | 1 | 4 | 2 | 2 | 0 | 2 | 1 | 3 | 1 | 0 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                              |             | 9 | 6 | 5 | 7 | 0 | 5 | 2 | 7 | 6 | 9 | 3 | 4 | 2 | 5 | 7 | 5 | 4 | 1 | 2 | 2 | 6 | 0 | 6 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

males  
(cont...)

**INTEGUMENTARY SYSTEM**

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland<br>Fibroadenoma | M | + | M | M | + | + | + | M | M | + | + | M | + | + | + | + | + | + | M | M | M | + | + | + | + |
| Skin                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Adenoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Basal Cell Carcinoma          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Keratoacanthoma               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   |
| Squamous Cell Papilloma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Trichoepithelioma             |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Osteoma                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Osteosarcoma                   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skeletal Muscle                | + |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lipoma                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Osteosarcoma, Metastatic, Bone | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**NERVOUS SYSTEM**

|                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Peripheral Nerve |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   | + |
| Spinal Cord      |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   | + |

**RESPIRATORY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>Control | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | males<br>(cont...) |                  |                  |
|----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|------------------|------------------|
|                                  | 0<br>3<br>6<br>7 | 0<br>4<br>9<br>2 | 0<br>5<br>1<br>4 | 0<br>5<br>5<br>1 | 0<br>5<br>6<br>2 | 0<br>5<br>6<br>4 | 0<br>5<br>9<br>1 | 0<br>6<br>1<br>4 | 0<br>6<br>2<br>0 | 0<br>6<br>3<br>5 | 0<br>6<br>4<br>5 | 0<br>6<br>5<br>4 | 0<br>6<br>6<br>1 | 0<br>6<br>6<br>9 | 0<br>6<br>7<br>0 | 0<br>6<br>7<br>5 | 0<br>6<br>7<br>6 | 0<br>6<br>7<br>7 | 0<br>6<br>8<br>8 | 0<br>6<br>9<br>9 |           |                    | 0<br>7<br>0<br>5 | 0<br>7<br>1<br>2 |
| Larynx                           | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                  | +                | +                |
| Lung                             | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                  | +                | +                |
| Alveolar/Bronchiolar Adenoma     |                  |                  |                  |                  |                  |                  |                  |                  | X                | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |                  |                  |
| Osteosarcoma, Metastatic, Bone   | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |                  |                  |
| Nose                             | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +         | +                  | +                |                  |
| Trachea                          | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                  | +                |                  |
| <b>SPECIAL SENSES SYSTEM</b>     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |                  |                  |
| Eye                              | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +         | +                  | +                |                  |
| Harderian Gland                  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                  | +                |                  |
| <b>URINARY SYSTEM</b>            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |                  |                  |
| Kidney                           | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                  | +                |                  |
| Mesenchymal Tumor Malignant      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |                  |                  |
| Urinary Bladder                  | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                  | +                |                  |
| <b>SYSTEMIC LESIONS</b>          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |                  |                  |
| Multiple Organ                   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                  | +                |                  |
| Leukemia Mononuclear             |                  |                  |                  | X                |                  | X                | X                |                  | X                |                  |                  | X                |                  |                  | X                |                  |                  |                  | X                |                  | X         | X                  |                  |                  |
| Mesothelioma Malignant           |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |                  |                  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |
|-----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
|                       | 0729        | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 |          | 0729 |
| Control               | 0000        | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000     | 50   |
| ANIMAL ID             | 0000        | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000     |      |
|                       | 37          | 1    | 0    | 3    | 3    | 4    | 0    | 1    | 2    | 8    | 9    | 4    | 8    | 1    | 4    | 7    | 8    | 3    | 8    | 1    | 8    | 9    | 5    | 9    | 0        |      |

**ALIMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery                 |   |   |   | + |   |   |   | + | + |   |   |   | + |   |   | + | + |   |   | + | + |   |   |   | + | 16 |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Glandular        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Tooth                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**CARDIOVASCULAR SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|-----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|                       | 0729        | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 |          |
| Control               | 0000        | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 1        |
| ANIMAL ID             | 0000        | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 50       |
|                       | 3710        | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 3710 | 1        |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Heart                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pericardium, Osteosarcoma, Metastatic, Bone |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**ENDOCRINE SYSTEM**

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenoma                    |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   | 4  |
| Adrenal Medulla            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pheochromocytoma Benign    |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5  |
| Pheochromocytoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Islets, Pancreatic         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adenoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Carcinoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   | 2  |
| Parathyroid Gland          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pituitary Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pars Distalis, Adenoma     | X | X |   | X |   | X | X | X |   | X | X |   | X | X | X | X | X | X | X | X |   |   |   |   | 34 |
| Thyroid Gland              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C-cell, Adenoma            |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   | 4  |
| C-cell, Carcinoma          | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE                 | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |
|---------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
|                                       | 0729        | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 |          |      |
| Control                               | ANIMAL ID   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |
|                                       | 0003        | 0007 | 0001 | 0000 | 0003 | 0004 | 0000 | 0001 | 0002 | 0008 | 0009 | 0004 | 0008 | 0001 | 0004 | 0007 | 0008 | 0003 | 0008 | 0001 | 0008 | 0009 | 0005 | 0009 |          | 0000 |
| Epididymis                            | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |      |
| Preputial Gland                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |      |
| Adenoma                               |             |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2        |      |
| Carcinoma                             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2        |      |
| Prostate                              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |      |
| Seminal Vesicle                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 48       |      |
| Testes                                | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |      |
| Bilateral, Interstitial Cell, Adenoma | X           |      | X    |      |      | X    |      | X    |      | X    | X    | X    | X    | X    | X    |      |      | X    | X    |      |      |      | X    | X    | 20       |      |
| Interstitial Cell, Adenoma            |             | X    |      |      |      |      | X    |      |      |      |      |      |      |      |      |      | X    |      | X    | X    | X    | X    |      |      | 12       |      |
| <b>HEMATOPOIETIC SYSTEM</b>           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| Bone Marrow                           | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49       |      |
| Lymph Node                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 6        |      |
| Lymph Node, Bronchial                 | M           | M    | M    | +    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | +    | M    | +    | M    | M    | M    | M    | M    | M    | 8        |      |
| Osteosarcoma, Metastatic, Bone        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |      |
| Lymph Node, Mandibular                | M           | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | M    | 1        |      |
| Lymph Node, Mediastinal               | +           | +    | M    | +    | M    | +    | +    | +    | +    | +    | +    | +    | M    | M    | +    | M    | +    | M    | +    | M    | M    | M    | +    | +    | 28       |      |
| Lymph Node, Mesenteric                | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |      |
| Spleen                                | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |      |
| Thymus                                | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | M    | +    | +    | M    | +    | +    | 42       |      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| DAY ON TEST           |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | * TOTALS |
|-----------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| FISCHER 344 RATS MALE |  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |          |
| Control               |  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |          |
| ANIMAL ID             |  | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |   |          |
|                       |  | 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 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 0 |          |
|                       |  | 3 | 7 | 1 | 0 | 3 | 4 | 0 | 1 | 2 | 8 | 9 | 4 | 8 | 1 | 4 | 7 | 8 | 3 | 8 | 1 | 8 | 9 | 0 |          |

**INTEGUMENTARY SYSTEM**

|                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |   |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|---|
| Mammary Gland<br>Fibroadenoma | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M | M | M | M | + | + | + | + | + | + |   |   |   |   |   |   |   | 36<br>1 |   |
| Skin                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |   |
| Basal Cell Adenoma            |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1       |   |
| Basal Cell Carcinoma          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1 |
| Keratoacanthoma               |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 3 |
| Squamous Cell Papilloma       |   |   |   | X |   |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 3 |
| Trichoepithelioma             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1 |
| Subcutaneous Tissue, Fibroma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         | 1 |

**MUSCULOSKELETAL SYSTEM**

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Bone                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |
| Osteoma                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |
| Osteosarcoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |
| Skeletal Muscle                |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3 |
| Lipoma                         |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |
| Osteosarcoma, Metastatic, Bone |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |

**NERVOUS SYSTEM**

|                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Brain            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |
| Peripheral Nerve |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 |
| Spinal Cord      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 |

**RESPIRATORY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE          | DAY ON TEST |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | * TOTALS |     |  |
|--------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|--|
|                                | 079         | 072 | 079 | 072 | 079 | 072 | 079 | 072 | 079 | 072 | 079 | 072 | 079 | 072 | 079 | 072 | 079 | 072 | 079 | 072 | 079 | 072 | 079 | 072 |          | 079 |  |
| Control                        | ANIMAL ID   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | * TOTALS |     |  |
|                                | 000         | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |          | 000 |  |
| Larynx                         | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 50       |     |  |
| Lung                           | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 50       |     |  |
| Alveolar/Bronchiolar Adenoma   |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | X   | 3        |     |  |
| Osteosarcoma, Metastatic, Bone |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 1        |     |  |
| Nose                           | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 49       |     |  |
| Trachea                        | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 50       |     |  |
| <b>SPECIAL SENSES SYSTEM</b>   |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |  |
| Eye                            | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 48       |     |  |
| Harderian Gland                | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 50       |     |  |
| <b>URINARY SYSTEM</b>          |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |  |
| Kidney                         | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 50       |     |  |
| Mesenchymal Tumor Malignant    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 1        |     |  |
| Urinary Bladder                | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 49       |     |  |
| <b>SYSTEMIC LESIONS</b>        |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |          |     |  |
| Multiple Organ                 | +           | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | +   | 50       |     |  |
| Leukemia Mononuclear           |             |     |     | X   | X   |     | X   |     |     | X   |     |     | X   |     |     |     | X   |     | X   |     |     |     | X   | 17  |          |     |  |
| Mesothelioma Malignant         |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 1        |     |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  | males<br>(cont...) |
|-----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--------------------|
|                       | 0294        | 0355 | 0466 | 0493 | 0554 | 0555 | 0555 | 0555 | 0555 | 0555 | 0666 | 0666 | 0666 | 0666 | 0666 | 0666 | 0666 | 0666 | 0666 | 0777 | 0777 | 0777 | 0777 |  |                    |
| 25 ppm                | 0023        | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |  |                    |
|                       | 2237        | 2007 | 2004 | 2004 | 2005 | 2006 | 2003 | 2008 | 2003 | 2000 | 2002 | 2003 | 2002 | 2001 | 2009 | 2005 | 2001 | 2009 | 2006 | 2001 | 2008 | 2004 | 2001 |  |                    |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + |
| Intestine Large, Cecum                 | A | + | + | + | A | A | A | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                 | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + |
| Intestine Large, Rectum                | + | + | + | + | + | A | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum              | A | + | + | + | A | A | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                 | A | + | + | + | A | A | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum               | A | + | + | + | A | A | A | A | + | + | + | + | + | + | A | + | + | A | + | + | + | + | + | + |
| Sarcoma Stromal                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Liver                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Urinary Bladder |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Adenoma                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Mesentery                              |   | + | + |   | + | + |   |   |   | + | + |   |   |   |   |   |   |   |   |   |   | + | + |   |
| Carcinoma, Metastatic, Urinary Bladder |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Urinary Bladder |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Salivary Glands                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID | males<br>(cont...) |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|--------------------|
|                       | 0<br>2<br>9<br>4      | 0<br>3<br>5<br>5      | 0<br>4<br>6<br>6      | 0<br>4<br>9<br>2      | 0<br>5<br>3<br>5      | 0<br>5<br>4<br>3      | 0<br>5<br>4<br>8      | 0<br>5<br>6<br>0      | 0<br>5<br>6<br>3      | 0<br>5<br>9<br>9      | 0<br>6<br>0<br>7      | 0<br>6<br>1<br>1      | 0<br>6<br>1<br>9      | 0<br>6<br>1<br>9      | 0<br>6<br>3<br>0      | 0<br>6<br>3<br>1      | 0<br>6<br>4<br>9      | 0<br>6<br>5<br>6      | 0<br>6<br>6<br>1      | 0<br>6<br>6<br>8      | 0<br>7<br>1<br>4      | 0<br>7<br>2<br>3      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      |           |                    |
| 25 ppm                | 0<br>0<br>2<br>3<br>7 | 0<br>0<br>2<br>0<br>7 | 0<br>0<br>2<br>3<br>4 | 0<br>0<br>2<br>4<br>4 | 0<br>0<br>2<br>3<br>5 | 0<br>0<br>2<br>0<br>6 | 0<br>0<br>2<br>1<br>3 | 0<br>0<br>2<br>4<br>8 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>0 | 0<br>0<br>2<br>4<br>2 | 0<br>0<br>2<br>0<br>3 | 0<br>0<br>2<br>0<br>2 | 0<br>0<br>2<br>1<br>1 | 0<br>0<br>2<br>0<br>5 | 0<br>0<br>2<br>0<br>1 | 0<br>0<br>2<br>4<br>5 | 0<br>0<br>2<br>2<br>5 | 0<br>0<br>2<br>3<br>9 | 0<br>0<br>2<br>1<br>2 | 0<br>0<br>2<br>4<br>1 | 0<br>0<br>2<br>1<br>8 | 0<br>0<br>2<br>5<br>4 | 0<br>0<br>2<br>0<br>8 |           |                    |

Tongue  
 Squamous Cell Papilloma

**CARDIOVASCULAR SYSTEM**

Heart +

**ENDOCRINE SYSTEM**

Adrenal Cortex +  
 Adenoma X

Adrenal Medulla +  
 Pheochromocytoma Benign X  
 Pheochromocytoma Malignant X  
 Bilateral, Pheochromocytoma Benign

Islets, Pancreatic +  
 Adenoma  
 Carcinoma X X

Parathyroid Gland +

Pituitary Gland + + + + + A +  
 Pars Distalis, Adenoma X

Thyroid Gland + + + + + + + + + + + + + + + A + + + + + + + + + + + + + + + + + + +  
 C-cell, Adenoma X  
 C-cell, Carcinoma X

**GENERAL BODY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | males<br>(cont...)    |  |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
|                       | 0<br>2<br>9<br>4      | 0<br>3<br>5<br>5      | 0<br>4<br>6<br>6      | 0<br>4<br>9<br>2      | 0<br>5<br>3<br>5      | 0<br>5<br>4<br>3      | 0<br>5<br>4<br>8      | 0<br>5<br>6<br>0      | 0<br>5<br>6<br>3      | 0<br>5<br>9<br>9      | 0<br>6<br>0<br>7      | 0<br>6<br>1<br>1      | 0<br>6<br>1<br>9      | 0<br>6<br>1<br>9      | 0<br>6<br>3<br>0      | 0<br>6<br>3<br>1      | 0<br>6<br>4<br>9      | 0<br>6<br>5<br>6      | 0<br>6<br>6<br>1      | 0<br>6<br>6<br>8      | 0<br>7<br>1<br>4      | 0<br>7<br>2<br>3      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      |                       |  |
| 25 ppm                | ANIMAL ID             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |  |
|                       | 0<br>0<br>2<br>3<br>7 | 0<br>0<br>2<br>0<br>7 | 0<br>0<br>2<br>3<br>4 | 0<br>0<br>2<br>4<br>4 | 0<br>0<br>2<br>3<br>5 | 0<br>0<br>2<br>0<br>6 | 0<br>0<br>2<br>1<br>3 | 0<br>0<br>2<br>4<br>8 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>0 | 0<br>0<br>2<br>4<br>2 | 0<br>0<br>2<br>0<br>3 | 0<br>0<br>2<br>0<br>2 | 0<br>0<br>2<br>1<br>1 | 0<br>0<br>2<br>0<br>5 | 0<br>0<br>2<br>0<br>1 | 0<br>0<br>2<br>4<br>5 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>3<br>9 | 0<br>0<br>2<br>1<br>2 | 0<br>0<br>2<br>4<br>1 | 0<br>0<br>2<br>1<br>8 | 0<br>0<br>2<br>5<br>0 | 0<br>0<br>2<br>0<br>4 | 0<br>0<br>2<br>0<br>8 |  |

Peritoneum

+

+

**GENITAL SYSTEM**

Epididymis

+ +

Preputial Gland  
 Carcinoma

+  
 X

Prostate  
 Carcinoma, Metastatic, Urinary Bladder

+  
 X

Seminal Vesicle  
 Carcinoma, Metastatic, Urinary Bladder

+  
 X

Testes  
 Bilateral, Interstitial Cell, Adenoma  
 Interstitial Cell, Adenoma

+  
 X  
 X

**HEMATOPOIETIC SYSTEM**

Bone Marrow

+ + + + + A + + + + + + + + + + + + + + + + + +

Lymph Node

+ + + +

Lymph Node, Bronchial  
 Carcinoma, Metastatic, Thyroid Gland

M M M M M M M + + M M M + M + M M + M M M M M + M  
 X

Lymph Node, Mandibular

M M

Lymph Node, Mediastinal

M + M M M M + + M + M + M + M M + M M M + M M M +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>25 ppm                           | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | males<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------|
|   | 0<br>2<br>9<br>4      | 0<br>3<br>5<br>5      | 0<br>4<br>6<br>6      | 0<br>4<br>9<br>2      | 0<br>5<br>3<br>5      | 0<br>5<br>4<br>3      | 0<br>5<br>4<br>8      | 0<br>5<br>6<br>0      | 0<br>5<br>6<br>3      | 0<br>5<br>9<br>9      | 0<br>6<br>0<br>7      | 0<br>6<br>1<br>1      | 0<br>6<br>1<br>1      | 0<br>6<br>3<br>9      | 0<br>6<br>3<br>1      | 0<br>6<br>4<br>9      | 0<br>6<br>5<br>6      | 0<br>6<br>6<br>1      | 0<br>6<br>6<br>8      | 0<br>7<br>1<br>4      | 0<br>7<br>2<br>3      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      |                       |                    |
| ANIMAL ID   | 0<br>0<br>2<br>3<br>7 | 0<br>0<br>2<br>0<br>7 | 0<br>0<br>2<br>3<br>4 | 0<br>0<br>2<br>4<br>4 | 0<br>0<br>2<br>3<br>5 | 0<br>0<br>2<br>0<br>6 | 0<br>0<br>2<br>1<br>3 | 0<br>0<br>2<br>4<br>8 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>0 | 0<br>0<br>2<br>4<br>2 | 0<br>0<br>2<br>0<br>3 | 0<br>0<br>2<br>0<br>2 | 0<br>0<br>2<br>1<br>1 | 0<br>0<br>2<br>0<br>5 | 0<br>0<br>2<br>0<br>1 | 0<br>0<br>2<br>4<br>5 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>3<br>9 | 0<br>0<br>2<br>1<br>2 | 0<br>0<br>2<br>4<br>1 | 0<br>0<br>2<br>1<br>8 | 0<br>0<br>2<br>5<br>0 | 0<br>0<br>2<br>0<br>4 |                    |
| Lymph Node, Mesenteric                                    | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                    |
| Spleen  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |                    |
| Thymus  | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | M                     | +                     | +                     | M                     | +                     | M                     | +                     | M                     | +                     | +                     |                    |
| <b>INTEGUMENTARY SYSTEM</b>                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                    |
| Mammary Gland<br>Fibroadenoma                             | M                     | +                     | M                     | M                     | +                     | M                     | M                     | M                     | M                     | +                     | +                     | M                     | M                     | +                     | M                     | M                     | +                     | +                     | M                     | +                     | +                     | +                     | M                     | M                     | +                  |
| Skin<br>Keratoacanthoma                                   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                  |
| Squamous Cell Papilloma                                   |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                    |
| Subcutaneous Tissue, Fibroma                              |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                    |
| Subcutaneous Tissue, Sarcoma                              | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                    |
| <b>MUSCULOSKELETAL SYSTEM</b>                             |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                    |
| Bone  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                  |
| Skeletal Muscle<br>Carcinoma, Metastatic, Urinary Bladder |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | +                  |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                    |
| <b>NERVOUS SYSTEM</b>                                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                    |
| Brain   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                  |
| <b>RESPIRATORY SYSTEM</b>                                 |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                    |
| Larynx<br>Carcinoma, Metastatic, Thyroid Gland            | +                     | +                     | +                     | +                     | +                     | A                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                  |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>25 ppm        | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | males<br>(cont...) |  |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|--------------------|--|
|  | 0<br>2<br>9<br>4 | 0<br>3<br>5<br>5 | 0<br>4<br>6<br>6 | 0<br>4<br>9<br>2 | 0<br>5<br>3<br>5 | 0<br>5<br>4<br>3 | 0<br>5<br>4<br>8 | 0<br>5<br>6<br>0 | 0<br>5<br>6<br>3 | 0<br>5<br>9<br>9 | 0<br>6<br>0<br>7 | 0<br>6<br>1<br>1 | 0<br>6<br>1<br>9 | 0<br>6<br>1<br>9 | 0<br>6<br>3<br>0 | 0<br>6<br>3<br>1 | 0<br>6<br>4<br>9 | 0<br>6<br>5<br>6 | 0<br>6<br>6<br>1 | 0<br>6<br>6<br>8 | 0<br>7<br>1<br>4 | 0<br>7<br>2<br>3 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 |           |                    |  |
| Lung                                   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                    |  |
| Alveolar/Bronchiolar Adenoma           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |  |
| Alveolar/Bronchiolar Carcinoma         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |  |
| Carcinoma, Metastatic, Thyroid Gland   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |  |
| Carcinoma, Metastatic, Urinary Bladder |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |  |
| Squamous Cell Carcinoma                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |  |
| Nose                                   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                    |  |
| Pleura                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |  |
| Trachea                                | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                    |  |
| <b>SPECIAL SENSES SYSTEM</b>           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |  |
| Eye                                    | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                    |  |
| Harderian Gland                        | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                    |  |
| Zymbal's Gland                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |  |
| Carcinoma                              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |  |
| <b>URINARY SYSTEM</b>                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |  |
| Kidney                                 | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                    |  |
| Renal Tubule, Carcinoma                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |  |
| Urinary Bladder                        | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                    |  |
| Transitional Epithelium, Carcinoma     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |  |
| <b>SYSTEMIC LESIONS</b>                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                    |  |
| Multiple Organ                         | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                    |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
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 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE  | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   | males<br>(cont...) |
|------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|--------------------|
|                        | ANIMAL ID        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |                    |
|                        | 0<br>2<br>9<br>4 | 0<br>3<br>5<br>5 | 0<br>4<br>6<br>6 | 0<br>4<br>9<br>2 | 0<br>5<br>3<br>5 | 0<br>5<br>4<br>3 | 0<br>5<br>4<br>8 | 0<br>5<br>6<br>0 | 0<br>5<br>6<br>3 | 0<br>5<br>9<br>9 | 0<br>6<br>0<br>7 | 0<br>6<br>1<br>1 | 0<br>6<br>1<br>9 | 0<br>6<br>1<br>9 | 0<br>6<br>3<br>0 | 0<br>6<br>3<br>1 | 0<br>6<br>4<br>9 | 0<br>6<br>5<br>6 | 0<br>6<br>6<br>1 | 0<br>6<br>6<br>8 | 0<br>7<br>1<br>4 | 0<br>7<br>2<br>3 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 |   |                    |
| 25 ppm                 | 0<br>2<br>3<br>7 | 0<br>0<br>2<br>7 | 0<br>0<br>3<br>4 | 0<br>0<br>2<br>4 | 0<br>0<br>2<br>5 | 0<br>0<br>2<br>6 | 0<br>0<br>2<br>3 | 0<br>0<br>2<br>8 | 0<br>0<br>2<br>3 | 0<br>0<br>2<br>0 | 0<br>0<br>2<br>2 | 0<br>0<br>2<br>4 | 0<br>0<br>2<br>0 | 0<br>0<br>2<br>1 | 0<br>0<br>2<br>5 | 0<br>0<br>2<br>5 | 0<br>0<br>2<br>4 | 0<br>0<br>2<br>9 | 0<br>0<br>2<br>2 | 0<br>0<br>1<br>1 | 0<br>0<br>4<br>4 | 0<br>0<br>1<br>5 | 0<br>0<br>5<br>8 | 0<br>0<br>0<br>4 |   |                    |
| Histiocytic Sarcoma    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                | X                |                  |                  |                  |                  |                  |   |                    |
| Leukemia Mononuclear   |                  |                  |                  |                  |                  |                  |                  |                  | X                | X                |                  | X                | X                | X                |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  | X |                    |
| Mesothelioma Malignant |                  |                  |                  | X                | X                | X                |                  |                  | X                | X                |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  | X                |                  |                  |   |                    |

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 + .. Tissue examined microscopically  
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 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
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 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|-----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|                       | 0729        | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 |          |
| 25 ppm                | 0000        | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |          |
|                       | 0209        | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 |          |
|                       | 0019        | 0015 | 0021 | 0022 | 0026 | 0029 | 0030 | 0031 | 0033 | 0034 | 0041 | 0041 | 0046 | 0049 | 0053 | 0052 | 0060 | 0066 | 0070 | 0077 | 0088 | 0088 | 0083 |      |          |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Cecum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 44 |
| Intestine Large, Colon                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Intestine Large, Rectum                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Intestine Small, Duodenum              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Intestine Small, Ileum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 |
| Intestine Small, Jejunum               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Sarcoma Stromal                        |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Liver                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma, Metastatic, Urinary Bladder |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Hepatocellular Adenoma                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery                              |   |   |   |   |   |   | + |   |   | + |   |   |   |   |   | + |   |   |   | + |   | + |   |   | 15 |
| Carcinoma, Metastatic, Urinary Bladder |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma, Metastatic, Urinary Bladder |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Salivary Glands                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Glandular                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>25 ppm    | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |  |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--|
|                                    | 0729        | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 |          |  |
| ANIMAL ID                          | 0009        | 0005 | 0001 | 0002 | 0006 | 0009 | 0000 | 0001 | 0003 | 0007 | 0009 | 0000 | 0004 | 0006 | 0009 | 0005 | 0002 | 0006 | 0000 | 0007 | 0008 | 0008 | 0003 | 0003 |          |  |
| Tongue                             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |
| Squamous Cell Papilloma            |             | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |
| <b>CARDIOVASCULAR SYSTEM</b>       |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| Heart                              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |
| <b>ENDOCRINE SYSTEM</b>            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |
| Adrenal Cortex                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |
| Adenoma                            |             |      |      | X    | X    |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 4        |  |
| Adrenal Medulla                    | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |
| Pheochromocytoma Benign            |             |      | X    |      |      |      |      |      |      |      |      |      | X    | X    | X    |      |      |      |      |      |      |      |      |      | 9        |  |
| Pheochromocytoma Malignant         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |
| Bilateral, Pheochromocytoma Benign |             |      |      |      |      |      |      | X    |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      | 2        |  |
| Islets, Pancreatic                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |
| Adenoma                            |             |      |      | X    |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      | 2        |  |
| Carcinoma                          |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2        |  |
| Parathyroid Gland                  | M           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49       |  |
| Pituitary Gland                    | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49       |  |
| Pars Distalis, Adenoma             |             | X    | X    |      | X    | X    | X    | X    |      | X    | X    |      |      | X    | X    | X    | X    | X    | X    |      | X    |      |      |      | 28       |  |
| Thyroid Gland                      | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49       |  |
| C-cell, Adenoma                    |             |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      | X    |      |      |      |      |      | X    |      | 5        |  |
| C-cell, Carcinoma                  |             |      |      |      | X    | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3        |  |

**GENERAL BODY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>25 ppm | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|                                 | 0729        | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 |          |
| ANIMAL ID                       | 0009        | 0005 | 0001 | 0002 | 0006 | 0009 | 0000 | 0001 | 0003 | 0007 | 0009 | 0000 | 0004 | 0006 | 0009 | 0005 | 0002 | 0006 | 0000 | 0007 | 0008 | 0008 | 0003 | 0003 |          |

Peritoneum 2

**GENITAL SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| Epididymis  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50       |
| Preputial Gland<br>Carcinoma                              | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | 49<br>1  |
| Prostate<br>Carcinoma, Metastatic, Urinary Bladder        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50<br>1  |
| Seminal Vesicle<br>Carcinoma, Metastatic, Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50<br>1  |
| Testes<br>Bilateral, Interstitial Cell, Adenoma           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50<br>24 |
| Interstitial Cell, Adenoma                                | X |   |   | X | X | X |   |   | X | X | X | X |   | X |   | X | X | X | X |   |   | X |   |   | 11       |

**HEMATOPOIETIC SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Bone Marrow   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49     |
| Lymph Node  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4      |
| Lymph Node, Bronchial<br>Carcinoma, Metastatic, Thyroid Gland | M | M | + | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | + | M |   | 9<br>1 |
| Lymph Node, Mandibular  | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1      |
| Lymph Node, Mediastinal                                       | + | M | + | M | M | + | M | + | + | + | + | M | + | M | M | + | M | + | M | + | M | + | M | M | 21     |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>25 ppm        | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
|  | 0729        | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 |          | 0729 |
| ANIMAL ID                              | 0009        | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009     |      |
| Lymph Node, Mesenteric                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50   |
| Spleen                                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50   |
| Thymus                                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +        | 43   |
| <b>INTEGUMENTARY SYSTEM</b>            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| Mammary Gland<br>Fibroadenoma          | +           | +    | +    | +    | M    | M    | +    | +    | +    | +    | +    | M    | +    | M    | +    | +    | +    | +    | +    | +    | M        | 29   |
| Skin                                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50   |
| Keratoacanthoma                        |             |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      | X    |          | 3    |
| Squamous Cell Papilloma                |             |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |          | 1    |
| Subcutaneous Tissue, Fibroma           |             |      | X    |      |      |      |      |      | X    |      |      |      | X    |      |      |      |      |      |      | X    |          | 4    |
| Subcutaneous Tissue, Sarcoma           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 2    |
| <b>MUSCULOSKELETAL SYSTEM</b>          |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| Bone                                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50   |
| Skeletal Muscle                        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | +    | +        | 4    |
| Carcinoma, Metastatic, Urinary Bladder |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 1    |
| <b>NERVOUS SYSTEM</b>                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| Brain                                  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50   |
| <b>RESPIRATORY SYSTEM</b>              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| Larynx                                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 49   |
| Carcinoma, Metastatic, Thyroid Gland   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 1    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>25 ppm        | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |  |  |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--|--|
|  | 0729        | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 |          |  |  |
| ANIMAL ID                              | 0009        | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009 | 0009     |  |  |
| Lung                                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |  |
| Alveolar/Bronchiolar Adenoma           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      | 1        |  |  |
| Alveolar/Bronchiolar Carcinoma         |             |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      | 1        |  |  |
| Carcinoma, Metastatic, Thyroid Gland   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |  |
| Carcinoma, Metastatic, Urinary Bladder |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |  |
| Squamous Cell Carcinoma                |             |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |  |
| Nose                                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |  |
| Pleura                                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |  |
| Trachea                                | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49       |  |  |
| <b>SPECIAL SENSES SYSTEM</b>           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |  |
| Eye                                    | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 48       |  |  |
| Harderian Gland                        | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49       |  |  |
| Zymbal's Gland                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |  |
| Carcinoma                              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |  |  |
| <b>URINARY SYSTEM</b>                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |  |
| Kidney                                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |  |
| Renal Tubule, Carcinoma                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2        |  |  |
| Urinary Bladder                        | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |  |
| Transitional Epithelium, Carcinoma     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2        |  |  |
| <b>SYSTEMIC LESIONS</b>                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |  |
| Multiple Organ                         | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

|                              |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |  |
|------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|--|
| <b>FISCHER 344 RATS MALE</b> | DAY ON TEST | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7               |  |
|                              | ANIMAL ID   | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2               |  |
| <b>25 ppm</b>                | ANIMAL ID   | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9               |  |
|                              |             | 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               |  |
|                              |             | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2               |  |
|                              |             | 0 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 1 | 1 | 1 | 1 | 2 | 3 | 3 | 4 | 4 | 1 | 2 | 2 | 3               |  |
|                              |             | 9 | 5 | 1 | 2 | 6 | 9 | 0 | 1 | 3 | 7 | 9 | 0 | 4 | 6 | 9 | 5 | 2 | 6 | 0 | 6 | 7 | 7 | 8 | 8               |  |
|                              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |  |
| Histiocytic Sarcoma          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>        |  |
| Leukemia Mononuclear         |             |   |   | X |   |   |   |   | X | X |   |   | X | X |   | X | X |   |   |   | X | X |   |   | <b>17</b>       |  |
| Mesothelioma Malignant       |             | X |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   | X |   |   |   | <b>12</b>       |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID        | males<br>(cont...) |
|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|
|                       | 0<br>2<br>9<br>6 | 0<br>4<br>1<br>8 | 0<br>4<br>2<br>3 | 0<br>5<br>0<br>0 | 0<br>5<br>0<br>2 | 0<br>5<br>3<br>5 | 0<br>5<br>5<br>5 | 0<br>5<br>5<br>7 | 0<br>5<br>6<br>3 | 0<br>5<br>7<br>4 | 0<br>5<br>7<br>5 | 0<br>5<br>8<br>6 | 0<br>5<br>9<br>1 | 0<br>5<br>9<br>6 | 0<br>6<br>0<br>3 | 0<br>6<br>1<br>7 | 0<br>6<br>1<br>7 | 0<br>6<br>3<br>4 | 0<br>6<br>4<br>4 | 0<br>6<br>4<br>2 | 0<br>6<br>6<br>0 | 0<br>6<br>6<br>1 | 0<br>6<br>6<br>6 | 0<br>6<br>6<br>8 |                  |                    |
| 50 ppm                | 0<br>4<br>1<br>7 | 0<br>4<br>4<br>8 | 0<br>4<br>4<br>7 | 0<br>4<br>4<br>6 | 0<br>4<br>2<br>1 | 0<br>4<br>3<br>0 | 0<br>4<br>3<br>3 | 0<br>4<br>2<br>0 | 0<br>4<br>4<br>4 | 0<br>4<br>4<br>4 | 0<br>4<br>3<br>4 | 0<br>4<br>4<br>5 | 0<br>4<br>1<br>4 | 0<br>4<br>3<br>3 | 0<br>4<br>4<br>1 | 0<br>4<br>4<br>6 | 0<br>4<br>4<br>2 | 0<br>4<br>4<br>4 | 0<br>4<br>4<br>4 | 0<br>4<br>1<br>4 | 0<br>4<br>0<br>8 | 0<br>4<br>1<br>0 | 0<br>4<br>1<br>9 | 0<br>4<br>2<br>7 | 0<br>4<br>2<br>5 |                    |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus<br>Carcinoma, Metastatic, Thyroid Gland | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                            | + | + | + | A | + | A | + | + | + | + | A | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                            | + | + | + | A | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                           | + | + | + | A | + | A | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum                         | + | + | + | A | + | A | + | + | + | + | A | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                            | + | + | + | A | + | A | + | + | + | + | A | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum                          | + | + | + | A | + | A | + | + | + | + | A | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery   |   |   |   | + |   |   | + |   |   | + | + | + | + |   |   | + | + |   | + | + | + | + |   |   | + |   |
| Pancreas<br>Acinus, Adenoma<br>Duct, Carcinoma    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular                                | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**CARDIOVASCULAR SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | males<br>(cont...) |
|-----------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
|                       | 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 |                    |
| 50 ppm                | 2           | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |                    |
|                       | 9           | 1 | 2 | 0 | 0 | 3 | 5 | 5 | 6 | 7 | 7 | 8 | 9 | 9 | 0 | 1 | 1 | 3 | 4 | 4 | 6 | 6 | 6 | 6 | 8 |                    |
|                       | 6           | 8 | 3 | 0 | 2 | 5 | 5 | 7 | 3 | 4 | 5 | 6 | 1 | 6 | 3 | 7 | 7 | 2 | 2 | 0 | 1 | 6 | 8 | 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 |                    |
|                       | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |                    |
|                       | 1           | 1 | 3 | 0 | 2 | 3 | 3 | 2 | 4 | 3 | 4 | 1 | 2 | 4 | 0 | 4 | 4 | 3 | 0 | 1 | 0 | 1 | 1 | 2 | 2 |                    |
|                       | 7           | 8 | 7 | 6 | 1 | 0 | 3 | 0 | 4 | 4 | 5 | 1 | 4 | 3 | 3 | 1 | 6 | 2 | 4 | 4 | 8 | 0 | 9 | 5 |   |                    |

Blood Vessel

+

Heart

+ +

ENDOCRINE SYSTEM

Adrenal Cortex  
 Adenoma

+ + + + + A +  
 X

Adrenal Medulla  
 Pheochromocytoma Benign  
 Bilateral, Pheochromocytoma Benign

+ + + + + A + + + + + + + + + + + + + + + + X + X X +

Islets, Pancreatic  
 Adenoma  
 Carcinoma

+  
 X

Parathyroid Gland  
 Adenoma

+ + M + + + + + M + + + + + + + + + + + + + + + + + +

Pituitary Gland  
 Pars Distalis, Adenoma

+ X X X X X X +

Thyroid Gland  
 C-cell, Adenoma  
 C-cell, Carcinoma  
 Follicular Cell, Carcinoma

+ X X +

GENERAL BODY SYSTEM

Peritoneum

+ + +

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | males<br>(cont...) |                  |
|-----------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|------------------|
|                       | 0<br>2<br>9<br>6 | 0<br>4<br>1<br>8 | 0<br>4<br>2<br>3 | 0<br>5<br>0<br>0 | 0<br>5<br>0<br>2 | 0<br>5<br>3<br>5 | 0<br>5<br>5<br>5 | 0<br>5<br>5<br>7 | 0<br>5<br>6<br>3 | 0<br>5<br>7<br>4 | 0<br>5<br>7<br>5 | 0<br>5<br>8<br>6 | 0<br>5<br>9<br>1 | 0<br>5<br>9<br>6 | 0<br>6<br>0<br>3 | 0<br>6<br>1<br>7 | 0<br>6<br>3<br>7 | 0<br>6<br>4<br>2 | 0<br>6<br>4<br>2 | 0<br>6<br>6<br>0 | 0<br>6<br>6<br>1 | 0<br>6<br>6<br>6 | 0<br>6<br>6<br>8 | 0<br>6<br>6<br>3 |                    |                  |
| 50 ppm                | ANIMAL ID        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                    |                  |
|                       | 0<br>4<br>1<br>7 | 0<br>0<br>4<br>8 | 0<br>0<br>4<br>7 | 0<br>0<br>4<br>6 | 0<br>0<br>4<br>1 | 0<br>0<br>4<br>0 | 0<br>0<br>4<br>3 | 0<br>0<br>4<br>2 | 0<br>0<br>4<br>4 | 0<br>0<br>4<br>4 | 0<br>0<br>4<br>5 | 0<br>0<br>4<br>1 | 0<br>0<br>4<br>4 | 0<br>0<br>4<br>3 | 0<br>0<br>4<br>3 | 0<br>0<br>4<br>1 | 0<br>0<br>4<br>6 | 0<br>0<br>4<br>2 | 0<br>0<br>4<br>4 | 0<br>0<br>4<br>4 | 0<br>0<br>4<br>8 | 0<br>0<br>4<br>0 | 0<br>0<br>4<br>1 | 0<br>0<br>4<br>1 | 0<br>0<br>4<br>2   | 0<br>0<br>4<br>5 |

GENITAL SYSTEM

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Penis                                 |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Preputial Gland                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |
| Adenoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma                             |   |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Prostate                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Seminal Vesicle                       | + | + | + | + | + | + | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Adenoma                               |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Testes                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Bilateral, Interstitial Cell, Adenoma |   |   |   | X |   | X |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   | X | X |   |
| Interstitial Cell, Adenoma            |   |   |   |   | X |   |   |   | X | X | X |   | X | X |   | X |   | X |   |   |   | X |   |   |   |

HEMATOPOIETIC SYSTEM

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow             | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Lymph Node              |   |   |   |   |   |   |   |   |   | + | + |   | + | + |   |   | + |   |   |   |   | + | + |   |   |
| Lymph Node, Bronchial   | M | M | M | M | M | M | M | + | + | M | M | M | M | + | M | M | M | M | M | M | M | M | + | M | M |
| Lymph Node, Mandibular  | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M |
| Lymph Node, Mediastinal | M | + | + | M | + | M | M | M | + | M | + | M | + | M | A | + | + | M | + | + | M | + | + | M | M |
| Lymph Node, Mesenteric  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>50 ppm | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       | ANIMAL ID          | males<br>(cont...) |
|---------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|--------------------|--------------------|
|                                 | 0<br>2<br>9<br>6 | 0<br>4<br>1<br>8 | 0<br>4<br>2<br>3 | 0<br>5<br>0<br>0 | 0<br>5<br>3<br>2 | 0<br>5<br>5<br>5 | 0<br>5<br>5<br>5 | 0<br>5<br>5<br>7 | 0<br>5<br>6<br>3 | 0<br>5<br>7<br>4 | 0<br>5<br>7<br>5 | 0<br>5<br>8<br>6 | 0<br>5<br>9<br>1 | 0<br>5<br>9<br>6 | 0<br>6<br>0<br>3 | 0<br>6<br>1<br>7 | 0<br>6<br>3<br>7 | 0<br>6<br>4<br>2 | 0<br>6<br>4<br>2 | 0<br>6<br>6<br>0 | 0<br>6<br>6<br>1 | 0<br>6<br>6<br>6 | 0<br>6<br>6<br>8 | 0<br>6<br>8<br>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<br>0<br>4<br>1<br>7 | males<br>(cont...) |                    |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Spleen   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |  |
| Thymus<br>Carcinoma, Metastatic, Thyroid Gland | + | M | + | + | + | + | M | + | + | + | + | + | + | A | + | + | + | + | + | M | + | + | M | + |  |  |

**INTEGUMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Mammary Gland<br>Carcinoma<br>Fibroadenoma   | M | + | + | M | M | M | M | + | M | M | M | M | + | M | M | M | + | M | M | + | + | + | + | M |  |  |
| Skin<br>Keratoacanthoma<br>Squamous Cell Papilloma<br>Trichoepithelioma<br>Subcutaneous Tissue, Fibroma<br>Subcutaneous Tissue, Fibroma, Multiple<br>Subcutaneous Tissue, Schwannoma Malignant | + | + | + | + | + | + | + | + | + | X | + | + | M | + | + | + | + | + | + | + | + | + | + | + |  |  |

**MUSCULOSKELETAL SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |
| Skeletal Muscle |   |   |   |   |   | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   | + |  |  |

**NERVOUS SYSTEM**

|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Brain<br>Granular Cell Tumor Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |
| Peripheral Nerve                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |  |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | males<br>(cont...) |
|-----------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
|                       | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |                    |
| 2                     | 4           | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 0         |                    |
| 9                     | 1           | 2 | 0 | 0 | 3 | 5 | 5 | 6 | 7 | 7 | 8 | 9 | 9 | 0 | 1 | 1 | 3 | 4 | 4 | 6 | 6 | 6 | 6 | 6 | 0         |                    |
| 6                     | 8           | 3 | 0 | 2 | 5 | 5 | 7 | 3 | 4 | 5 | 6 | 1 | 6 | 3 | 7 | 7 | 2 | 2 | 0 | 1 | 6 | 6 | 8 | 3 | 0         |                    |
| 50 ppm                | 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         |                    |
|                       | 4           | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0         |                    |
|                       | 1           | 1 | 3 | 0 | 2 | 3 | 3 | 2 | 4 | 3 | 4 | 1 | 2 | 4 | 0 | 4 | 4 | 3 | 0 | 1 | 0 | 1 | 1 | 2 | 0         |                    |
|                       | 7           | 8 | 7 | 6 | 1 | 0 | 3 | 0 | 4 | 4 | 5 | 1 | 4 | 3 | 1 | 6 | 2 | 4 | 4 | 8 | 0 | 9 | 7 | 5 | 0         |                    |

Spinal Cord +

**RESPIRATORY SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Larynx                               | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Carcinoma, Metastatic, Thyroid Gland |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |  |
| Lung                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Alveolar/Bronchiolar Adenoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Alveolar/Bronchiolar Carcinoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Carcinoma, Metastatic, Kidney        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Carcinoma, Metastatic, Thyroid Gland |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |  |
| Nose                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Sarcoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |  |
| Respiratory Epithelium, Adenoma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Trachea                              | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Carcinoma, Metastatic, Thyroid Gland |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |  |

**SPECIAL SENSES SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Eye             | + | + | + | + | + | A | + | + | + | + | A | + | + | + | A | + | + | + | + | + | + | + | + |  |
| Harderian Gland | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |  |

**URINARY SYSTEM**

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Kidney                  | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Renal Tubule, Carcinoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Urinary Bladder         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

|                              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                            |
|------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------------|
| <b>FISCHER 344 RATS MALE</b> | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | <b>males<br/>(cont...)</b> |
|                              | 0<br>2<br>9<br>6 | 0<br>4<br>1<br>8 | 0<br>4<br>2<br>3 | 0<br>5<br>0<br>0 | 0<br>5<br>0<br>2 | 0<br>5<br>3<br>5 | 0<br>5<br>5<br>7 | 0<br>5<br>5<br>3 | 0<br>5<br>6<br>4 | 0<br>5<br>7<br>5 | 0<br>5<br>8<br>6 | 0<br>5<br>9<br>1 | 0<br>5<br>9<br>6 | 0<br>6<br>0<br>3 | 0<br>6<br>1<br>7 | 0<br>6<br>1<br>7 | 0<br>6<br>3<br>7 | 0<br>6<br>4<br>2 | 0<br>6<br>4<br>2 | 0<br>6<br>6<br>0 | 0<br>6<br>6<br>1 | 0<br>6<br>6<br>6 | 0<br>6<br>6<br>8 | 0<br>6<br>6<br>3 |                            |
|                              | ANIMAL ID        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                            |
| <b>50 ppm</b>                | 0<br>4<br>1<br>7 | 0<br>4<br>1<br>8 | 0<br>4<br>3<br>7 | 0<br>4<br>0<br>6 | 0<br>4<br>2<br>1 | 0<br>4<br>3<br>0 | 0<br>4<br>3<br>3 | 0<br>4<br>2<br>0 | 0<br>4<br>4<br>4 | 0<br>4<br>3<br>4 | 0<br>4<br>4<br>1 | 0<br>4<br>4<br>2 | 0<br>4<br>4<br>4 | 0<br>4<br>0<br>3 | 0<br>4<br>4<br>3 | 0<br>4<br>4<br>1 | 0<br>4<br>4<br>6 | 0<br>4<br>4<br>2 | 0<br>4<br>4<br>4 | 0<br>4<br>0<br>8 | 0<br>4<br>0<br>0 | 0<br>4<br>4<br>X | 0<br>4<br>4<br>X | 0<br>4<br>1<br>7 | 0<br>4<br>2<br>5           |

SYSTEMIC LESIONS

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Histiocytic Sarcoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear   |   |   |   |   |   |   |   |   | X | X |   |   | X | X |   | X |   |   |   | X |   | X | X |   | X |
| Mesothelioma Malignant |   |   |   | X | X | X | X |   |   | X | X |   |   | X |   |   |   | X | X | X | X | X | X | X | X |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>50 ppm                    | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
|  | 0689        | 0688  | 0675  | 0672  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  |    |          |
| ANIMAL ID  | 00423       | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 |    |          |
| Blood Vessel                                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| Heart  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| <b>ENDOCRINE SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| Adrenal Cortex Adenoma                             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49 |          |
| Adrenal Medulla Pheochromocytoma Benign            | X           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 5  |          |
| Adrenal Medulla Bilateral, Pheochromocytoma Benign |             |       |       |       |       |       |       | X     |       | X     |       |       |       |       |       | X     |       |       |       |       |       |       |       | 3  |          |
| Islets, Pancreatic Adenoma                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Islets, Pancreatic Carcinoma                       |             |       |       |       |       |       |       |       |       |       |       | X     |       | X     | X     |       |       |       |       |       |       |       |       | 3  |          |
| Parathyroid Gland Adenoma                          | +           | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 47 |          |
| Pituitary Gland Pars Distalis, Adenoma             | X           | X     |       |       | X     | X     | X     |       |       | X     | X     | X     | X     |       |       | X     | X     | X     | X     | X     | X     | X     | X     | 26 |          |
| Thyroid Gland C-cell, Adenoma                      | +           | +     | +     | I     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49 |          |
| Thyroid Gland C-cell, Carcinoma                    |             |       |       |       | X     |       |       |       |       |       | X     |       |       | X     |       | X     |       |       |       |       |       |       |       | 4  |          |
| Thyroid Gland Follicular Cell, Carcinoma           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 3  |          |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |

**GENERAL BODY SYSTEM**

|            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|
| Peritoneum |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | 4 |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>50 ppm | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  | * TOTALS |
|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|----------|
|                                 | 0689        | 0688  | 0675  | 0672  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  |  |          |
| ANIMAL ID                       | 00423       | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 |  |          |
|                                 | 37          | 22    | 55    | 22    | 32    | 66    | 88    | 11    | 55    | 88    | 77    | 00    | 11    | 99    | 55    | 22    | 66    | 99    | 66    | 99    | 00    | 88    | 22    |  |          |

**GENITAL SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Epididymis                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Penis                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Preputial Gland                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   | 2  |
| Carcinoma                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 3  |
| Prostate                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Seminal Vesicle                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Adenoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Testes                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Bilateral, Interstitial Cell, Adenoma | X | X | X |   | X |   | X |   | X |   | X |   | X |   | X |   | X |   | X |   | X | X |   | 17 |
| Interstitial Cell, Adenoma            |   |   |   | X |   | X |   | X |   | X | X | X | X | X |   |   |   | X | X |   |   |   | X | 22 |

**HEMATOPOIETIC SYSTEM**

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Bone Marrow             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |    |
| Lymph Node              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 9  |    |
| Lymph Node, Bronchial   | + | M | M | M | M | M | + | M | M | M | M | M | M | M | M | + | + | M | M | M | + | M | M | M  | 9  |
| Lymph Node, Mandibular  | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M  | 1  |
| Lymph Node, Mediastinal | M | + | + | + | M | M | + | M | + | + | M | M | + | + | M | + | M | + | + | M | + | M | M | M  | 24 |
| Lymph Node, Mesenteric  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>50 ppm                | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    | * TOTALS |    |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|----|
|  | 0689        | 0688  | 0675  | 0672  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  |    |          |    |
| ANIMAL ID                                      | 00423       | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 |    |          |    |
| Spleen   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |    |
| Thymus<br>Carcinoma, Metastatic, Thyroid Gland | +           | +     | +     | M     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | M     | +  | +        | 41 |
| <b>INTEGUMENTARY SYSTEM</b>                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |    |
| Mammary Gland<br>Carcinoma<br>Fibroadenoma     | +           | M     | M     | M     | M     | M     | +     | +     | +     | +     | M     | +     | M     | M     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +  | M        | 24 |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 1  |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 1  |
| Skin   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +  | +        | 49 |
| Keratoacanthoma                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 3  |
| Squamous Cell Papilloma                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 1  |
| Trichoepithelioma                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 2  |
| Subcutaneous Tissue, Fibroma                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 2  |
| Subcutaneous Tissue, Fibroma, Multiple         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 1  |
| Subcutaneous Tissue, Schwannoma Malignant      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 1  |
| <b>MUSCULOSKELETAL SYSTEM</b>                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |    |
| Bone   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +  | +        | 50 |
| Skeletal Muscle                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 7  |
| <b>NERVOUS SYSTEM</b>                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |    |
| Brain  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +  | +        | 50 |
| Granular Cell Tumor Benign                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 1  |
| Peripheral Nerve                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>50 ppm | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|                                 | 0689        | 0698  | 0705  | 0709  | 0712  | 0717  | 0722  | 0729  | 0732  | 0739  | 0745  | 0752  | 0759  | 0765  | 0772  | 0779  | 0785  | 0792  | 0799  | 0805  | 0812  | 0819  | 0825  | 0832  |          |
| ANIMAL ID                       | 00423       | 00442 | 00452 | 00462 | 00472 | 00482 | 00492 | 00502 | 00512 | 00522 | 00532 | 00542 | 00552 | 00562 | 00572 | 00582 | 00592 | 00602 | 00612 | 00622 | 00632 | 00642 | 00652 | 00662 |          |
|                                 | 3           | 7     | 2     | 5     | 2     | 3     | 6     | 8     | 1     | 5     | 8     | 7     | 0     | 1     | 9     | 5     | 2     | 6     | 9     | 6     | 9     | 0     | 8     | 2     | 9        |

Spinal Cord 1

**RESPIRATORY SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Larynx                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Carcinoma, Metastatic, Thyroid Gland |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lung                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Adenoma         |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   | 3  |
| Alveolar/Bronchiolar Carcinoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Carcinoma, Metastatic, Kidney        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Carcinoma, Metastatic, Thyroid Gland |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Nose                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Sarcoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Respiratory Epithelium, Adenoma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |
| Trachea                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Carcinoma, Metastatic, Thyroid Gland |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**SPECIAL SENSES SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

**URINARY SYSTEM**

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Renal Tubule, Carcinoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Urinary Bladder         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

|                              |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                 |
|------------------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|
| <b>FISCHER 344 RATS MALE</b> | DAY ON TEST   | 0689  | 0689  | 0759  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779            |
|                              | <b>50 ppm</b> | 00423 | 00440 | 00440 | 00441 | 00441 | 00441 | 00442 | 00443 | 00443 | 00443 | 00444 | 00444 | 00444 | 00445 | 00445 | 00445 | 00446 | 00446 | 00446 | 00447 | 00447 | 00448 | 00448           |
|                              | ANIMAL ID     | 00449 | 00449 | 00450 | 00450 | 00450 | 00450 | 00451 | 00451 | 00451 | 00452 | 00452 | 00452 | 00453 | 00453 | 00453 | 00454 | 00454 | 00454 | 00455 | 00455 | 00455 | 00456 | 00456           |
|                              |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | <b>* TOTALS</b> |

**SYSTEMIC LESIONS**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Multiple Organ         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b> |
| Histiocytic Sarcoma    |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>  |
| Leukemia Mononuclear   |   |   |   | X |   |   |   | X | X |   |   |   | X | X |   | X |   |   |   |   | X |   |   | <b>16</b> |
| Mesothelioma Malignant | X | X | X |   | X | X | X | X | X |   |   | X |   |   |   | X | X | X |   | X |   |   |   | <b>28</b> |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
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 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

|                       |         | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | males<br>(cont...) |
|-----------------------|---------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------------|
| FISCHER 344 RATS MALE | 100 ppm | ANIMAL ID   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |                    |
|                       |         | 001616      | 000663 | 000661 | 000668 | 000669 | 000669 | 000661 | 000662 | 000663 | 000664 | 000663 | 000668 | 000662 | 000665 | 000667 | 000669 | 000668 | 000665 | 000663 | 000666 | 000667 | 000668 | 000669 | 000669 |                    |
|                       |         | 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      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      |                    |
|                       |         | 1           | 3      | 4      | 9      | 3      | 3      | 3      | 4      | 6      | 8      | 8      | 9      | 0      | 0      | 1      | 1      | 1      | 2      | 3      | 5      | 5      | 7      | 7      | 9      |                    |
|                       |         | 0           | 7      | 9      | 5      | 4      | 4      | 5      | 2      | 1      | 3      | 3      | 0      | 7      | 7      | 9      | 9      | 8      | 5      | 3      | 6      | 0      | 6      | 4      | 8      |                    |

ALIMENTARY SYSTEM

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum         | + | A | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon Adenoma | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum        | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum      | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum         | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum       | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver Cholangiocarcinoma       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery                      |   |   | + | + |   | + |   | + | + |   | + | + |   |   |   |   |   |   | + | + | + |   | + | + |
| Pancreas Acinus, Carcinoma     | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Tongue                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
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Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>100 ppm | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | males<br>(cont...) |  |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|--|
|                                  | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 0         |                    |  |
|                                  | 1           | 3 | 4 | 9 | 3 | 3 | 3 | 4 | 6 | 8 | 8 | 9 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 5 | 5 | 7 | 7 | 9 | 9         | 0                  |  |
|                                  | 0           | 7 | 9 | 5 | 4 | 4 | 5 | 2 | 1 | 3 | 3 | 3 | 0 | 7 | 7 | 9 | 9 | 8 | 5 | 3 | 6 | 0 | 6 | 4 | 8         | 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6         | 0                  |  |
|                                  | 1           | 3 | 1 | 0 | 1 | 3 | 4 | 1 | 2 | 3 | 4 | 3 | 2 | 4 | 4 | 2 | 4 | 2 | 0 | 4 | 0 | 1 | 1 | 3 | 2         | 0                  |  |
|                                  | 6           | 3 | 1 | 8 | 9 | 9 | 1 | 2 | 3 | 4 | 3 | 8 | 2 | 5 | 9 | 4 | 7 | 8 | 5 | 4 | 7 | 5 | 8 | 2 | 9         | 0                  |  |

**CARDIOVASCULAR SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrous Histiocytoma, Metastatic, Skin |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |

**ENDOCRINE SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Benign            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |   | X |   |
| Pheochromocytoma Malignant         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, Pheochromocytoma Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Islets, Pancreatic                 | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Parathyroid Gland                  | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + | + | + |
| Pituitary Gland                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma             |   | X |   | X | X | X |   |   |   |   |   | X | X | X | X | X |   | X | X |   | X | X | X | X |
| Thyroid Gland                      | + | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Adenoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| C-cell, Carcinoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

**GENERAL BODY SYSTEM**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Peritoneum                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + |
| Osteosarcoma, Metastatic, Uncertain Primary Site |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>100 ppm | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | males<br>(cont...) |  |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|--|
|                                  | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 0         |                    |  |
|                                  | 1           | 3 | 4 | 9 | 3 | 3 | 3 | 4 | 6 | 8 | 8 | 9 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 5 | 5 | 7 | 7 | 9 | 9         | 0                  |  |
|                                  | 0           | 7 | 9 | 5 | 4 | 4 | 5 | 2 | 1 | 3 | 3 | 3 | 0 | 7 | 7 | 9 | 9 | 8 | 5 | 3 | 6 | 0 | 6 | 4 | 8         | 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6         | 0                  |  |
|                                  | 1           | 3 | 1 | 0 | 1 | 3 | 4 | 1 | 2 | 3 | 4 | 3 | 2 | 4 | 4 | 2 | 4 | 2 | 0 | 4 | 0 | 1 | 1 | 3 | 2         | 0                  |  |
|                                  | 6           | 3 | 1 | 8 | 9 | 9 | 1 | 2 | 3 | 4 | 3 | 8 | 2 | 5 | 9 | 4 | 7 | 8 | 5 | 4 | 7 | 5 | 8 | 2 | 9         | 0                  |  |

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus                 | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + | + | + |

**INTEGUMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland<br>Fibroadenoma             | + | M | + | + | M | M | M | + | + | + | M | M | M | M | M | + | + | + | + | M | + | + | M | M | + |
| Skin                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Adenoma                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Keratoacanthoma                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Squamous Cell Papilloma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibrosarcoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibrous Histiocytoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Lipoma               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone<br>Osteosarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**NERVOUS SYSTEM**

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

**RESPIRATORY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br><br>100 ppm             | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | males<br>(cont...) |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|
|  | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |           |                    |
|  | 1           | 3 | 4 | 9 | 3 | 3 | 3 | 4 | 6 | 8 | 8 | 9 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 5 | 5 | 7 | 7 | 9 |           |                    |
|  | 0           | 7 | 9 | 5 | 4 | 4 | 5 | 2 | 1 | 3 | 3 | 3 | 0 | 7 | 7 | 9 | 9 | 8 | 5 | 3 | 6 | 0 | 6 | 4 |           |                    |
|  | 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |           |                    |
|  | 1           | 3 | 1 | 0 | 1 | 3 | 4 | 1 | 2 | 3 | 4 | 3 | 2 | 4 | 4 | 2 | 4 | 2 | 0 | 4 | 0 | 1 | 1 | 3 |           |                    |
|  | 6           | 3 | 1 | 8 | 9 | 9 | 1 | 2 | 3 | 4 | 3 | 8 | 2 | 5 | 9 | 4 | 7 | 8 | 5 | 4 | 7 | 5 | 8 | 2 |           |                    |
| Larynx   | +           | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| Lung   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| Alveolar/Bronchiolar Adenoma                     |             |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |
| Alveolar/Bronchiolar Carcinoma                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |
| Carcinoma, Metastatic, Kidney                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |           |                    |
| Fibrous Histiocytoma, Metastatic, Skin           |             |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |           |                    |
| Osteosarcoma, Metastatic, Uncertain Primary Site |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |           |                    |
| Nose   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| Respiratory Epithelium, Adenoma                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |           |                    |
| Pleura   | +           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |
| Trachea  | +           | A | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| <b>SPECIAL SENSES SYSTEM</b>                     |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |
| Eye  | +           | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| Harderian Gland                                  | +           | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| <b>URINARY SYSTEM</b>                            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |
| Kidney   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| Mesenchymal Tumor Malignant                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |
| Renal Tubule, Carcinoma                          |             |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |           |                    |
| Urinary Bladder                                  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |           |                    |
| <b>SYSTEMIC LESIONS</b>                          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



**Experiment Number:** 20303 - 05  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
**CAS Number:** 75-35-4

**Date Report Requested:** 12/12/2011  
**Time Report Requested:** 09:47:55  
**First Dose M/F:** 06/06/05 / 06/06/05  
**Lab:** BNW

| FISCHER 344 RATS MALE<br><br>100 ppm | DAY ON TEST | 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 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6                | 6 | 6 | 6 | 6 | 6 | 6 |
|                                      |             | 1 | 3 | 4 | 9 | 3 | 3 | 3 | 4 | 6 | 8 | 8 | 9 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 5 | 5 | 7 | 7 | 9 | 9 | 9 | 9 | 9                | 9 | 9 | 9 | 9 | 9 | 9 |
| 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 |   |
|                                      | 6           | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6                | 6 | 6 | 6 | 6 | 6 |   |
|                                      | 1           | 3 | 1 | 0 | 1 | 3 | 4 | 1 | 2 | 3 | 4 | 3 | 2 | 4 | 4 | 2 | 4 | 2 | 0 | 4 | 4 | 0 | 1 | 1 | 3 | 2 | 2 | 6 | 6                | 6 | 6 | 6 | 6 | 6 |   |
|                                      | 6           | 3 | 1 | 8 | 9 | 9 | 1 | 2 | 3 | 4 | 3 | 8 | 2 | 5 | 9 | 4 | 7 | 8 | 5 | 4 | 7 | 5 | 8 | 2 | 9 | 2 | 9 | 2 | 9                | 2 | 9 | 2 | 9 | 2 |   |
|                                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>males</b>     |   |   |   |   |   |   |
|                                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>(cont...)</b> |   |   |   |   |   |   |

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Multiple Organ         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Leukemia Mononuclear   |   | X | X |   | X |   |   |   | X |   | X | X | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |  |
| Mesothelioma Malignant |   |   | X | X |   | X |   | X | X |   | X | X |   |   |   |   | X |   | X | X |   |   |   |   |   |   |   | X |   |   |   |   |   |   |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
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Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>100 ppm | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|                                  | 068         | 069   | 068   | 067   | 067   | 067   | 067   | 067   | 067   | 067   | 067   | 067   | 067   | 067   | 067   | 067   | 067   | 067   | 067   | 067   | 067   | 067   | 067   | 067   |          |
| ANIMAL ID                        | 00640       | 00664 | 00660 | 00663 | 00661 | 00667 | 00663 | 00664 | 00669 | 00661 | 00665 | 00667 | 00667 | 00662 | 00662 | 00663 | 00664 | 00660 | 00664 | 00667 | 00667 | 00663 | 00663 | 00661 | 00661    |
|                                  | 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        |

**ALIMENTARY SYSTEM**

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Esophagus                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Intestine Large, Cecum            | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46      |
| Intestine Large, Colon<br>Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48<br>1 |
| Intestine Large, Rectum           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Intestine Small, Duodenum         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Intestine Small, Ileum            | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47      |
| Intestine Small, Jejunum          | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47      |
| Liver<br>Cholangiocarcinoma       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50<br>1 |
| Mesentery                         | + | + | + | + |   | + |   | + |   | + |   |   |   |   |   | + | + |   |   |   |   |   | + |   | 23      |
| Pancreas<br>Acinus, Carcinoma     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49<br>1 |
| Salivary Glands                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Stomach, Forestomach              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Stomach, Glandular                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Tongue                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   | 2       |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| DAY ON TEST | FISCHER 344 RATS MALE |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |      |   |
|-------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|------|---|
|             | 0698                  | 0698  | 0701  | 0701  | 0708  | 0708  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  |          | 0709  | 0709 |   |
| ANIMAL ID   | 00640                 | 00640 | 00640 | 00640 | 00640 | 00640 | 00640 | 00640 | 00640 | 00640 | 00640 | 00640 | 00640 | 00640 | 00640 | 00640 | 00640 | 00640 | 00640 | 00640 | 00640    | 00640 | 50   |   |
|             | 0640                  | 0640  | 0640  | 0640  | 0640  | 0640  | 0640  | 0640  | 0640  | 0640  | 0640  | 0640  | 0640  | 0640  | 0640  | 0640  | 0640  | 0640  | 0640  | 0640  | 0640     | 0640  | 0640 | 1 |

**CARDIOVASCULAR SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Heart                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Fibrous Histiocytoma, Metastatic, Skin |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**ENDOCRINE SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Adrenal Medulla                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pheochromocytoma Benign            |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   | X | X |   |   |   |   |   | 7  |
| Pheochromocytoma Malignant         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1  |
| Bilateral, Pheochromocytoma Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | 1  |
| Islets, Pancreatic                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1  |
| Carcinoma                          |   | X |   |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 4  |
| Parathyroid Gland                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | M | + | + | + | 45 |
| Pituitary Gland                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pars Distalis, Adenoma             |   | X | X | X | X |   | X | X | X | X |   |   |   | X | X | X | X | X | X | X |   | X | X | X | 33 |
| Thyroid Gland                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| C-cell, Adenoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 1  |
| C-cell, Carcinoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 3  |

**GENERAL BODY SYSTEM**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Peritoneum                                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |
| Osteosarcoma, Metastatic, Uncertain Primary Site |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>100 ppm | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
|                                  | 068         | 069  | 068  | 067  | 067  | 067  | 067  | 067  | 067  | 067  | 067  | 067  | 067  | 067  | 067  | 067  | 067  | 067  | 067  | 067  |          | 067  |
| ANIMAL ID                        | 0040        | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066     | 0066 |
|                                  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0        | 0    |

Tissue NOS + 1

**GENITAL SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Coagulating Gland                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | 3 |         |
| Epididymis                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Preputial Gland                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Prostate Adenoma                      | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | 50<br>1 |
| Seminal Vesicle Adenoma               | + | + | + | A | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | 48<br>1 |
| Testes                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Bilateral, Interstitial Cell, Adenoma | X |   |   | X |   | X | X |   |   | X | X |   |   | X |   |   |   |   | X |   |   |   | 14      |
| Interstitial Cell, Adenoma            |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   | X |   | X |   | X | X |   | 11      |

**HEMATOPOIETIC SYSTEM**

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Bone Marrow             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |    |
| Lymph Node              | + | + | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 7 |    |    |
| Lymph Node, Bronchial   | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | + | M | M  | 9  |
| Lymph Node, Mandibular  | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M  | 0  |
| Lymph Node, Mediastinal | + | + | + | + | M | + | M | + | + | + | M | M | + | + | + | + | + | + | + | + | + | M | M  | 30 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>100 ppm          | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | * TOTALS |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
|   | 0698        | 0698   | 0701   | 0701   | 0708   | 0708   | 0709   | 0709   | 0709   | 0709   | 0709   | 0709   | 0709   | 0709   | 0709   | 0709   | 0709   | 0709   | 0709   | 0709   | 0709   | 0709   | 0709   | 0709   |          |
| ANIMAL ID                                 | 006400      | 006640 | 006603 | 006611 | 006611 | 006600 | 006600 | 006600 | 006600 | 006600 | 006600 | 006600 | 006600 | 006600 | 006600 | 006600 | 006600 | 006600 | 006600 | 006600 | 006600 | 006600 | 006600 | 006600 |          |
| Lymph Node, Mesenteric                    | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50     |          |
| Spleen                                    | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50     |          |
| Thymus                                    | I           | M      | +      | +      | +      | +      | +      | +      | +      | +      | M      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 44     |        |          |
| <b>INTEGUMENTARY SYSTEM</b>               |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |
| Mammary Gland<br>Fibroadenoma             | +           | M      | +      | +      | M      | M      | +      | +      | +      | +      | +      | +      | +      | +      | M      | +      | +      | M      | +      | +      | +      | +      | M      | +      | 32       |
|   | X           |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 2      |          |
| Skin                                      | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50     |          |
| Basal Cell Adenoma                        |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1      |          |
| Keratoacanthoma                           |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 2      |          |
| Squamous Cell Papilloma                   |             |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        | 1      |          |
| Subcutaneous Tissue, Fibroma              |             |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        | X      |        |        |        | X      | 3      |          |
| Subcutaneous Tissue, Fibrosarcoma         |             |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        | 1      |          |
| Subcutaneous Tissue, Fibrous Histiocytoma |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1      |          |
| Subcutaneous Tissue, Lipoma               |             |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        | 1      |          |
| <b>MUSCULOSKELETAL SYSTEM</b>             |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |
| Bone                                      | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50     |          |
| Osteosarcoma                              |             |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1      |          |
| Skeletal Muscle                           | +           | +      |        | +      |        | +      |        | +      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 11     |          |
| <b>NERVOUS SYSTEM</b>                     |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |
| Brain                                     | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50     |          |
| <b>RESPIRATORY SYSTEM</b>                 |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>100 ppm                 | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |     |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-----|
|  | 068         | 069   | 068   | 069   | 068   | 069   | 068   | 069   | 068   | 069   | 068   | 069   | 068   | 069   | 068   | 069   | 068   | 069   | 068   | 069   |          | 068   | 069 |
| ANIMAL ID  | 00640       | 00664 | 00660 | 00663 | 00661 | 00667 | 00663 | 00664 | 00669 | 00661 | 00665 | 00667 | 00667 | 00662 | 00662 | 00666 | 00660 | 00664 | 00667 | 00667 | 00663    | 00660 |     |
| Larynx   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 49  |
| Lung   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50  |
| Alveolar/Bronchiolar Adenoma                     |             |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       | X     |       |          |       | 3   |
| Alveolar/Bronchiolar Carcinoma                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |          |       | 1   |
| Carcinoma, Metastatic, Kidney                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1   |
| Fibrous Histiocytoma, Metastatic, Skin           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1   |
| Osteosarcoma, Metastatic, Uncertain Primary Site |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1   |
| Nose   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50  |
| Respiratory Epithelium, Adenoma                  |             |       |       |       |       |       |       |       | X     | X     |       |       |       |       |       |       |       |       |       | X     |          |       | 4   |
| Pleura   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1   |
| Trachea  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 48  |
| <b>SPECIAL SENSES SYSTEM</b>                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |     |
| Eye  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 49  |
| Harderian Gland                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 49  |
| <b>URINARY SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |     |
| Kidney   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50  |
| Mesenchymal Tumor Malignant                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1   |
| Renal Tubule, Carcinoma                          |             |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |          |       | 1   |
| Urinary Bladder                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50  |

**SYSTEMIC LESIONS**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

|                        |         | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |          |  |
|------------------------|---------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|--|
|                        |         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |   |    |          |  |
| FISCHER 344 RATS MALE  | 100 ppm | 6           | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |   |    |          |  |
|                        |         | 9           | 9 | 0 | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |    |          |  |
|                        |         | 8           | 8 | 1 | 1 | 8 | 6 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |    |          |  |
|                        |         | 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 |   |    |          |  |
|                        |         | 6           | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |   |    |          |  |
|                        |         | 4           | 4 | 0 | 3 | 1 | 1 | 0 | 0 | 0 | 2 | 2 | 3 | 3 | 4 | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 2 | 5  |          |  |
|                        |         | 0           | 6 | 1 | 5 | 7 | 3 | 3 | 4 | 9 | 1 | 5 | 6 | 7 | 2 | 2 | 6 | 0 | 4 | 6 | 7 | 0 | 1 | 8 | 0 | 0  | * TOTALS |  |
| Multiple Organ         |         | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |          |  |
| Leukemia Mononuclear   |         | X           | X |   | X |   | X |   |   | X |   | X |   |   |   |   | X |   |   | X | X | X | X |   |   | 20 |          |  |
| Mesothelioma Malignant |         | X           | X | X | X |   | X | X | X |   | X |   | X |   |   |   | X |   | X | X |   |   |   |   |   | 23 |          |  |

\*\*\* END OF MALE DATA \*\*\*

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | females<br>(cont...) |
|-------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|
|                         | 0<br>5<br>4<br>7 | 0<br>5<br>5<br>1 | 0<br>5<br>7<br>9 | 0<br>5<br>9<br>2 | 0<br>6<br>3<br>1 | 0<br>6<br>5<br>6 | 0<br>6<br>6<br>1 | 0<br>6<br>6<br>6 | 0<br>6<br>7<br>5 | 0<br>6<br>8<br>7 | 0<br>6<br>8<br>7 | 0<br>6<br>9<br>1 | 0<br>6<br>9<br>4 | 0<br>6<br>9<br>8 | 0<br>7<br>0<br>3 | 0<br>7<br>1<br>9 | 0<br>7<br>2<br>4 | 0<br>7<br>2<br>4 | 0<br>7<br>3<br>5 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 |                      |
| Control                 | 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                |                      |
|                         | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                | 1                |                      |
|                         | 1                | 0                | 2                | 2                | 3                | 2                | 2                | 0                | 3                | 2                | 3                | 5                | 4                | 1                | 2                | 3                | 2                | 0                | 1                | 0                | 1                | 1                | 1                | 2                |                      |
|                         | 6                | 3                | 7                | 5                | 5                | 9                | 1                | 5                | 3                | 2                | 1                | 0                | 3                | 1                | 3                | 7                | 8                | 4                | 2                | 9                | 0                | 3                | 4                | 4                |                      |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                      | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                     | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma, Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| Mesentery                                   | + | + | + |   |   |   |   | + |   | + | + |   |   |   |   |   |   |   |   | + |   |   | + |
| Pancreas                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Tongue                                      |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma                     |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

|                         |  | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(cont...) |
|-------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| FISCHER 344 RATS FEMALE |  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |                      |
| Control                 |  | 5           | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |                      |
|                         |  | 4           | 5 | 7 | 9 | 3 | 5 | 6 | 6 | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 0 | 1 | 2 | 2 | 3 | 3 | 3 | 3 |   |                      |
|                         |  | 7           | 1 | 9 | 2 | 1 | 6 | 1 | 6 | 5 | 7 | 7 | 1 | 4 | 8 | 8 | 3 | 9 | 4 | 4 | 5 | 1 | 1 | 1 |   |                      |
|                         |  | 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 |   |                      |
|                         |  | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |                      |
|                         |  | 1           | 0 | 2 | 2 | 3 | 2 | 2 | 0 | 3 | 2 | 3 | 5 | 4 | 1 | 2 | 3 | 2 | 0 | 1 | 0 | 1 | 1 | 1 |   |                      |
|                         |  | 6           | 3 | 7 | 5 | 5 | 9 | 1 | 5 | 3 | 2 | 1 | 0 | 3 | 1 | 3 | 7 | 8 | 4 | 2 | 9 | 0 | 3 | 4 | 4 | 6                    |

CARDIOVASCULAR SYSTEM

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leiomyosarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Heart          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Adenoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bilateral, Adenoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adrenal Medulla            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pheochromocytoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Islets, Pancreatic         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Adenoma     |   | X | X | X |   |   | X | X |   | X | X | X | X |   | X | X | X | X |   | X | X | X | X | X | X | X | X | X |
| Pars Distalis, Carcinoma   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thyroid Gland              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Adenoma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

GENERAL BODY SYSTEM

NONE

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | females<br>(cont...)  |
|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                         | 0<br>5<br>4<br>7      | 0<br>5<br>5<br>1      | 0<br>5<br>7<br>9      | 0<br>5<br>9<br>2      | 0<br>6<br>3<br>1      | 0<br>6<br>5<br>6      | 0<br>6<br>6<br>1      | 0<br>6<br>6<br>6      | 0<br>6<br>7<br>5      | 0<br>6<br>8<br>7      | 0<br>6<br>8<br>7      | 0<br>6<br>9<br>1      | 0<br>6<br>9<br>4      | 0<br>6<br>9<br>8      | 0<br>6<br>9<br>8      | 0<br>7<br>0<br>3      | 0<br>7<br>1<br>9      | 0<br>7<br>2<br>4      | 0<br>7<br>2<br>4      | 0<br>7<br>2<br>5      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      |                       |
| Control                 | 0<br>0<br>1<br>1<br>6 | 0<br>0<br>0<br>1<br>3 | 0<br>0<br>1<br>2<br>7 | 0<br>0<br>1<br>2<br>5 | 0<br>0<br>1<br>3<br>5 | 0<br>0<br>1<br>2<br>9 | 0<br>0<br>1<br>2<br>1 | 0<br>0<br>3<br>2<br>5 | 0<br>0<br>1<br>3<br>2 | 0<br>0<br>1<br>2<br>1 | 0<br>0<br>1<br>3<br>0 | 0<br>0<br>1<br>4<br>3 | 0<br>0<br>1<br>1<br>1 | 0<br>0<br>1<br>2<br>3 | 0<br>0<br>1<br>3<br>7 | 0<br>0<br>2<br>2<br>8 | 0<br>0<br>1<br>0<br>4 | 0<br>0<br>1<br>0<br>2 | 0<br>0<br>1<br>0<br>9 | 0<br>0<br>1<br>1<br>0 | 0<br>0<br>1<br>1<br>3 | 0<br>0<br>1<br>1<br>4 | 0<br>0<br>1<br>1<br>4 | 0<br>0<br>2<br>2<br>6 | 0<br>0<br>1<br>2<br>6 |

GENITAL SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland Adenoma Carcinoma                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | + | + | + | + |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Ovary Granulosa-Theca Tumor Malignant Sertoli Cell Tumor Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Uterus Polyp Stromal Bilateral, Polyp Stromal                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
|  |   |   | X | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |

HEMATOPOIETIC SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Lymph Node   | + |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Bronchial                              | M | + | M | + | + | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M |   |
| Lymph Node, Mandibular                             | M | M | M | M | M | M | M | M | + | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M |   |
| Lymph Node, Mediastinal                            | + | M | + | M | + | + | + | M | + | + | + | + | M | + | + | + | + | M | + | + | + | M | M | M | + |
| Lymph Node, Mesenteric                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Spleen   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Thymus Sarcoma, Metastatic, Uncertain Primary Site | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + |   |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE | DAY ON TEST                |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            |                            | females<br>(cont...) |
|-------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------|
|                         | 0<br>5<br>4<br>7           | 0<br>5<br>5<br>1           | 0<br>5<br>7<br>9           | 0<br>5<br>9<br>2           | 0<br>6<br>3<br>1           | 0<br>6<br>5<br>6           | 0<br>6<br>6<br>1           | 0<br>6<br>6<br>6           | 0<br>6<br>7<br>5           | 0<br>6<br>8<br>7           | 0<br>6<br>8<br>7           | 0<br>6<br>9<br>1           | 0<br>6<br>9<br>4           | 0<br>6<br>9<br>8           | 0<br>6<br>9<br>8           | 0<br>7<br>0<br>3           | 0<br>7<br>1<br>9           | 0<br>7<br>2<br>4           | 0<br>7<br>2<br>4           | 0<br>7<br>2<br>5           | 0<br>7<br>3<br>1           | 0<br>7<br>3<br>1           | 0<br>7<br>3<br>1           | 0<br>7<br>3<br>1           |                      |
| Control                 | 0<br>0<br>1<br>1<br>1<br>6 | 0<br>0<br>0<br>0<br>0<br>3 | 0<br>0<br>1<br>2<br>2<br>7 | 0<br>0<br>1<br>2<br>2<br>5 | 0<br>0<br>1<br>3<br>2<br>5 | 0<br>0<br>1<br>2<br>2<br>9 | 0<br>0<br>1<br>2<br>2<br>1 | 0<br>0<br>1<br>3<br>2<br>5 | 0<br>0<br>1<br>3<br>2<br>3 | 0<br>0<br>1<br>2<br>3<br>2 | 0<br>0<br>1<br>3<br>5<br>1 | 0<br>0<br>1<br>3<br>4<br>0 | 0<br>0<br>1<br>2<br>1<br>3 | 0<br>0<br>1<br>3<br>1<br>3 | 0<br>0<br>1<br>2<br>3<br>7 | 0<br>0<br>1<br>3<br>2<br>8 | 0<br>0<br>1<br>2<br>0<br>4 | 0<br>0<br>1<br>1<br>0<br>2 | 0<br>0<br>1<br>1<br>0<br>9 | 0<br>0<br>1<br>1<br>1<br>0 | 0<br>0<br>1<br>1<br>1<br>3 | 0<br>0<br>1<br>1<br>1<br>4 | 0<br>0<br>1<br>1<br>2<br>4 | 0<br>0<br>1<br>1<br>2<br>6 |                      |

**INTEGUMENTARY SYSTEM**

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma                    |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   |
| Carcinoma, Multiple          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Fibroadenoma                 | X |   | X |   | X |   |   |   |   | X | X | X |   |   |   | X | X | X |   |   | X | X | X |   |
| Fibroadenoma, Multiple       |   |   |   |   |   |   | X | X |   |   |   |   |   | X | X | X |   |   | X | X |   |   |   |   |
| Skin                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Adenoma           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Keratoacanthoma              |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Osteosarcoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Sarcoma, Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Skeletal Muscle                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Sarcoma, Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

**NERVOUS SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Carcinoma, Metastatic, Pituitary Gland |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |  |

**RESPIRATORY SYSTEM**

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Larynx                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lung                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Alveolar/Bronchiolar Adenoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| DAY ON TEST   | FISCHER 344 RATS FEMALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | ANIMAL ID | females<br>(cont...) |
|---|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------------------|
|   | 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 0         |                      |
| 4   | 5                       | 7 | 9 | 3 | 5 | 6 | 6 | 7 | 8 | 8 | 9 | 9 | 9 | 9 | 0 | 1 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 0         |                      |
| 7   | 1                       | 9 | 2 | 1 | 6 | 1 | 6 | 5 | 7 | 7 | 1 | 4 | 8 | 8 | 3 | 9 | 4 | 4 | 5 | 1 | 1 | 1 | 1 | 1 | 0         |                      |
| Control   | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0         |                      |
|   | 1                       | 0 | 2 | 2 | 3 | 2 | 2 | 0 | 3 | 2 | 3 | 5 | 4 | 1 | 2 | 3 | 2 | 0 | 1 | 0 | 1 | 1 | 1 | 2 | 0         |                      |
|   | 6                       | 3 | 7 | 5 | 5 | 9 | 1 | 5 | 3 | 2 | 1 | 0 | 3 | 1 | 3 | 7 | 8 | 4 | 2 | 9 | 0 | 3 | 4 | 4 | 0         |                      |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |
| Sarcoma, Metastatic, Uncertain Primary Site             |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           | X                    |
| Nose  | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |                      |
| Trachea   | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |                      |
| <b>SPECIAL SENSES SYSTEM</b>                            |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |
| Eye   | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |                      |
| Harderian Gland   | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |                      |
| <b>URINARY SYSTEM</b>                                   |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |
| Kidney  | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |                      |
| Urinary Bladder   | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |                      |
| <b>SYSTEMIC LESIONS</b>                                 |                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |
| Multiple Organ  | +                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |                      |
| Leukemia Mononuclear                                    |                         |   |   |   | X | X |   |   | X |   |   | X |   | X | X |   |   | X |   |   |   |   |   |   |           |                      |
| Lymphoma Malignant                                      | X                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

**Experiment Number:** 20303 - 05  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**  
 Vinylidene chloride  
**CAS Number:** 75-35-4

**Date Report Requested:** 12/12/2011  
**Time Report Requested:** 09:47:55  
**First Dose M/F:** 06/06/05 / 06/06/05  
**Lab:** BNW

| DAY ON TEST             |  | 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 |
|-------------------------|--|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE |  | 7               | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
|                         |  | 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 |
|                         |  | 1               | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Control                 |  | 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 |
| 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 |
|                         |  | 1               | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|                         |  | 4               | 0 | 0 | 1 | 3 | 4 | 4 | 4 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
|                         |  | 0               | 1 | 7 | 5 | 6 | 1 | 5 | 9 | 2 | 6 | 8 | 7 | 8 | 9 | 0 | 0 | 2 | 4 | 8 | 9 | 2 | 4 | 6 | 7 | 8 | 8 |   |
|                         |  | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Colon                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Duodenum                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Sarcoma, Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesentery                                   |   | + |   |   |   |   |   |   |   |   |   |   | + |   |   | + |   |   |   |   |   |   |   |   |   |   | + |   | 13 |
| Pancreas                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Glandular                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Tongue                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Carcinoma                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

|                                |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                 |                          |
|--------------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-----------------|--------------------------|
| <b>FISCHER 344 RATS FEMALE</b> |  | DAY ON TEST              |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                 |                          |
|                                |  | 0 7<br>3 3<br>1 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        | 0 7<br>3 3<br>2 2        |                 | 0 7<br>3 3<br>2 2        |
| <b>Control</b>                 |  | ANIMAL ID                |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          | <b>* TOTALS</b> |                          |
|                                |  | 0 0<br>1 1<br>4 0<br>0 1 | 0 0<br>1 1<br>0 0<br>0 1 | 0 0<br>1 1<br>0 1<br>0 7 | 0 0<br>1 1<br>3 4<br>5 6 | 0 0<br>1 1<br>4 4<br>1 5 | 0 0<br>1 1<br>4 4<br>5 9 | 0 0<br>1 1<br>0 0<br>2 6 | 0 0<br>1 1<br>0 0<br>6 8 | 0 0<br>1 1<br>0 0<br>7 8 | 0 0<br>1 1<br>1 1<br>9 9 | 0 0<br>1 1<br>1 1<br>0 0 | 0 0<br>1 1<br>1 1<br>0 0 | 0 0<br>1 1<br>2 3<br>0 0 | 0 0<br>1 1<br>3 3<br>2 2 | 0 0<br>1 1<br>3 3<br>4 4 | 0 0<br>1 1<br>3 3<br>8 9 | 0 0<br>1 1<br>3 3<br>9 2 | 0 0<br>1 1<br>4 4<br>6 4 | 0 0<br>1 1<br>4 4<br>7 6 | 0 0<br>1 1<br>4 4<br>7 7 |                 | 0 0<br>1 1<br>4 4<br>8 8 |
|                                |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                 |                          |
|                                |  |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                          |                 |                          |

**CARDIOVASCULAR SYSTEM**

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                |           |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------|-----------|
| Blood Vessel<br>Leiomyosarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1<br/>1</b> |           |
| Heart                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +              | <b>50</b> |

**ENDOCRINE SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------|
| Adrenal Cortex<br>Adenoma                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50<br/>1</b>  |
| Carcinoma                                     |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>         |
| Bilateral, Adenoma                            |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | <b>1</b>         |
| Adrenal Medulla<br>Pheochromocytoma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50<br/>1</b>  |
| Islets, Pancreatic                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>        |
| Parathyroid Gland                             | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b>        |
| Pituitary Gland<br>Pars Distalis, Adenoma     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50<br/>32</b> |
| Pars Distalis, Carcinoma                      | X |   | X | X |   |   | X |   |   |   | X |   | X | X | X | X |   |   | X | X | X | <b>1</b>         |
| Thyroid Gland<br>C-cell, Adenoma              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50<br/>3</b>  |

**GENERAL BODY SYSTEM**

NONE

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |  |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|--|
|                         | 0731        | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 |      |          |  |
| Control                 | 0040        | 0011 | 0007 | 0005 | 0006 | 0001 | 0005 | 0009 | 0002 | 0006 | 0008 | 0007 | 0008 | 0009 | 0000 | 0000 | 0002 | 0004 | 0008 | 0009 | 0002 | 0004 | 0006 | 0007 | 0008     |  |
|                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |  |

**GENITAL SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland Adenoma                | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Clitoral Gland Carcinoma              | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X | 4  |
| Ovary Granulosa-Theca Tumor Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 50 |
| Ovary Sertoli Cell Tumor Malignant    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Uterus Polyp Stromal                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 50 |
| Uterus Bilateral, Polyp Stromal       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 10 |
|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**HEMATOPOIETIC SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Lymph Node, Bronchial                              | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 4  |
| Lymph Node, Mandibular                             | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 2  |
| Lymph Node, Mediastinal                            | M | + | + | M | M | + | M | + | M | + | M | + | M | + | + | + | + | + | + | M | M | + | + | + | 33 |
| Lymph Node, Mesenteric                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Thymus Sarcoma, Metastatic, Uncertain Primary Site | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 46 |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

**Experiment Number:** 20303 - 05  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
**CAS Number:** 75-35-4

**Date Report Requested:** 12/12/2011  
**Time Report Requested:** 09:47:55  
**First Dose M/F:** 06/06/05 / 06/06/05  
**Lab:** BNW

| DAY ON TEST | FISCHER 344 RATS FEMALE |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |
|-------------|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|
|             | 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 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |
|             | 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 |                 |
|             | 1                       | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 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 |                 |
|             | 1                       | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |                 |
|             | 4                       | 0 | 0 | 1 | 3 | 4 | 4 | 4 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |                 |
|             | 0                       | 1 | 7 | 5 | 6 | 1 | 5 | 9 | 2 | 6 | 8 | 7 | 8 | 9 | 0 | 0 | 2 | 4 | 8 | 9 | 2 | 4 | 6 | 7 | 8 | <b>* TOTALS</b> |

**INTEGUMENTARY SYSTEM**

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma                    |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 4  |
| Carcinoma, Multiple          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Fibroadenoma                 | X | X |   |   |   | X |   | X |   | X | X | X |   | X | X |   | X | X | X |   | X |   |   |   | 26 |
| Fibroadenoma, Multiple       |   |   |   | X |   |   |   | X |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   | 11 |
| Skin                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Basal Cell Adenoma           |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Keratoacanthoma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Subcutaneous Tissue, Fibroma |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 1  |

**MUSCULOSKELETAL SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Osteosarcoma                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Sarcoma, Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Skeletal Muscle                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Sarcoma, Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**NERVOUS SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma, Metastatic, Pituitary Gland |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**RESPIRATORY SYSTEM**

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Larynx                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lung                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Adenoma |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE                                 | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 | * TOTALS  |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|-----------|
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0               |           |
| <b>Control</b>  | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |                 |           |
|   | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                 |           |
|   | 1           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 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 |                 |           |
|   | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |                 |           |
|   | 4           | 0 | 0 | 1 | 3 | 4 | 4 | 4 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 |                 |           |
|   | 0           | 1 | 7 | 5 | 6 | 1 | 5 | 9 | 2 | 6 | 8 | 7 | 8 | 9 | 0 | 0 | 2 | 4 | 8 | 9 | 2 | 4 | 6 |                 |           |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |           |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X               | <b>1</b>  |
| Sarcoma, Metastatic, Uncertain Primary Site             |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 | <b>1</b>  |
| Nose  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 | <b>50</b> |
| Trachea   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 | <b>50</b> |
| <b>SPECIAL SENSES SYSTEM</b>                            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |
| Eye   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 | <b>50</b> |
| Harderian Gland   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 | <b>50</b> |
| <b>URINARY SYSTEM</b>                                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |
| Kidney  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 | <b>50</b> |
| Urinary Bladder   | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 | <b>50</b> |
| <b>SYSTEMIC LESIONS</b>                                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |           |
| Multiple Organ  | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |                 | <b>50</b> |
| Leukemia Mononuclear                                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X               | <b>10</b> |
| Lymphoma Malignant                                      |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X               | <b>1</b>  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
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 BLANK .. Not examined microscopically



Experiment Number: 20303 - 05  
Test Type: CHRONIC  
Route: RESPIRATORY EXPOSURE WHOLE BODY  
Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride  
CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
Time Report Requested: 09:47:55  
First Dose M/F: 06/06/05 / 06/06/05  
Lab: BNW

|                                       |                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
|---------------------------------------|-------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| FISCHER 344 RATS FEMALE<br><br>25 ppm | DAY ON TEST       | 0<br>4<br>5<br>1      | 0<br>4<br>7<br>0      | 0<br>5<br>3<br>5      | 0<br>5<br>4<br>1      | 0<br>5<br>7<br>1      | 0<br>5<br>7<br>1      | 0<br>6<br>0<br>0      | 0<br>6<br>1<br>0      | 0<br>6<br>1<br>3      | 0<br>6<br>2<br>5      | 0<br>6<br>3<br>3      | 0<br>6<br>3<br>3      | 0<br>6<br>5<br>3      | 0<br>6<br>6<br>1      | 0<br>6<br>6<br>1      | 0<br>6<br>7<br>5      | 0<br>6<br>8<br>9      | 0<br>6<br>9<br>1      | 0<br>6<br>9<br>4      | 0<br>7<br>0<br>9      | 0<br>7<br>1<br>2      | 0<br>7<br>1<br>7      | 0<br>7<br>1<br>9      | 0<br>7<br>3<br>1      |                       |
|                                       | ANIMAL ID         | 0<br>0<br>3<br>2<br>1 | 0<br>0<br>3<br>0<br>7 | 0<br>0<br>3<br>2<br>9 | 0<br>0<br>3<br>1<br>3 | 0<br>0<br>3<br>1<br>6 | 0<br>0<br>3<br>4<br>5 | 0<br>0<br>3<br>4<br>7 | 0<br>0<br>3<br>4<br>5 | 0<br>0<br>3<br>4<br>8 | 0<br>0<br>3<br>3<br>9 | 0<br>0<br>3<br>3<br>5 | 0<br>0<br>3<br>3<br>7 | 0<br>0<br>3<br>3<br>9 | 0<br>0<br>3<br>0<br>9 | 0<br>0<br>3<br>1<br>9 | 0<br>0<br>3<br>2<br>6 | 0<br>0<br>3<br>0<br>4 | 0<br>0<br>3<br>3<br>6 | 0<br>0<br>3<br>4<br>0 | 0<br>0<br>3<br>4<br>0 | 0<br>0<br>3<br>2<br>3 | 0<br>0<br>3<br>0<br>8 | 0<br>0<br>3<br>1<br>8 | 0<br>0<br>3<br>1<br>4 | 0<br>0<br>3<br>1<br>4 |
|                                       | females (cont...) |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |

Stomach, Glandular

+ +

CARDIOVASCULAR SYSTEM

Blood Vessel  
Aorta, Schwannoma Malignant, Metastatic,  
Heart

+  
X

Heart  
Schwannoma Malignant

+  
X

ENDOCRINE SYSTEM

Adrenal Cortex  
Adenoma  
Carcinoma

+ +

Adrenal Medulla  
Pheochromocytoma Benign

+ +

Islets, Pancreatic  
Carcinoma

+  
X

Parathyroid Gland  
Adenoma

+ + + + + + + + + + + + M + + + + + + + + + + + + + +

Pituitary Gland  
Pars Distalis, Adenoma  
Pars Distalis, Carcinoma

+  
X  
X X X X

Thyroid Gland  
Schwannoma Malignant, Metastatic, Heart  
C-cell, Adenoma

+  
X  
X X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
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 Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
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 Lab: BNW

|                         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | DAY ON TEST | 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 |
|                         | 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 |
| 25 ppm                  |             | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
|                         |             | 5 | 7 | 3 | 4 | 5 | 7 | 0 | 1 | 1 | 2 | 3 | 3 | 3 | 5 | 6 | 6 | 7 | 8 | 9 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |
|                         |             | 1 | 0 | 5 | 1 | 1 | 1 | 0 | 0 | 3 | 5 | 3 | 3 | 9 | 3 | 1 | 1 | 5 | 9 | 1 | 4 | 9 | 0 | 2 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |   |
|                         |             | 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 |   |
|                         |             | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
|                         |             | 2 | 0 | 2 | 1 | 3 | 1 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 0 | 1 | 2 | 0 | 3 | 4 | 4 | 2 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |
|                         |             | 1 | 7 | 9 | 3 | 6 | 5 | 1 | 7 | 5 | 8 | 9 | 5 | 7 | 9 | 9 | 6 | 3 | 4 | 6 | 0 | 3 | 8 | 8 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |   |

females  
(cont...)

C-cell, Carcinoma  
 Follicular Cell, Adenoma

X  
 X

**GENERAL BODY SYSTEM**

Peritoneum +

**GENITAL SYSTEM**

Clitoral Gland +  
 Adenoma X X

Ovary +  
 Granulosa Cell Tumor Benign  
 Granulosa-Theca Tumor Benign

Uterus +  
 Polyp Stromal X X X X

Vagina +  
 Granular Cell Tumor Benign  
 Leiomyosarcoma X

**HEMATOPOIETIC SYSTEM**

Bone Marrow +

Lymph Node + +

Lymph Node, Bronchial M + M M M M + M + M M M M M M M M + + M M M M M

Lymph Node, Mandibular M

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>25 ppm | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       | ANIMAL ID | females<br>(cont...) |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------|----------------------|
|                                   | 0<br>4<br>5<br>1 | 0<br>4<br>7<br>0 | 0<br>5<br>3<br>5 | 0<br>5<br>4<br>1 | 0<br>5<br>5<br>1 | 0<br>5<br>7<br>1 | 0<br>6<br>0<br>0 | 0<br>6<br>1<br>0 | 0<br>6<br>1<br>3 | 0<br>6<br>2<br>5 | 0<br>6<br>3<br>3 | 0<br>6<br>3<br>3 | 0<br>6<br>3<br>9 | 0<br>6<br>5<br>3 | 0<br>6<br>6<br>1 | 0<br>6<br>6<br>1 | 0<br>6<br>7<br>5 | 0<br>6<br>8<br>9 | 0<br>6<br>9<br>1 | 0<br>7<br>9<br>4 | 0<br>7<br>0<br>9 | 0<br>7<br>1<br>2 | 0<br>7<br>1<br>7 | 0<br>7<br>1<br>9      |           |                      |
|                                   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0<br>0<br>3<br>2<br>1 |           |                      |

Lymph Node, Mediastinal  
 Carcinoma, Metastatic, Thyroid Gland

+ M + M + M M + M + M M M M + M M + M + + + M M +

Lymph Node, Mesenteric

+ +

Spleen  
 Schwannoma Malignant, Metastatic, Heart

+  
 X

Thymus  
 Thymoma Benign

+ + + M + + + + + + + + + + + + + + + M + M I +

**INTEGUMENTARY SYSTEM**

Mammary Gland  
 Carcinoma, Multiple  
 Fibroadenoma  
 Fibroadenoma, Multiple  
 Schwannoma Malignant, Metastatic, Heart

+  
 X  
 X  
 X

Skin  
 Basal Cell Adenoma  
 Subcutaneous Tissue, Fibroma  
 Subcutaneous Tissue, Neural Crest Tumor  
 Subcutaneous Tissue, Schwannoma Malignant

+  
 X

**MUSCULOSKELETAL SYSTEM**

Bone  
 Osteoma

+  
 X

Skeletal Muscle  
 Schwannoma Malignant, Metastatic, Heart

+  
 X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| DAY ON TEST                    |   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>FISCHER 344 RATS FEMALE</b> | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 |
|                                | 5 | 7 | 3 | 4 | 5 | 7 | 0 | 1 | 1 | 2 | 3 | 3 | 3 | 5 | 6 | 6 | 7 | 8 | 9 | 9 | 0 | 1 | 1 |
|                                | 1 | 0 | 5 | 1 | 1 | 1 | 0 | 0 | 3 | 5 | 3 | 9 | 9 | 3 | 1 | 1 | 5 | 9 | 1 | 4 | 9 | 2 | 7 |
| <b>25 ppm</b>                  | 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 |
|                                | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|                                | 2 | 0 | 2 | 1 | 3 | 1 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 0 | 1 | 2 | 0 | 3 | 4 | 4 | 2 | 0 | 1 |
| 1                              | 7 | 9 | 3 | 6 | 5 | 1 | 7 | 5 | 8 | 9 | 5 | 7 | 9 | 9 | 6 | 3 | 4 | 6 | 0 | 3 | 8 | 8 | 4 |

females  
(cont...)

**NERVOUS SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Pituitary Gland |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   |
| Oligodendroglioma Benign               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Heart         |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesenchymal Tumor Malignant, Metastatic, Kidney |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Heart         |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pleura  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Trachea   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Heart         |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**SPECIAL SENSES SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye                                     | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Schwannoma Malignant, Metastatic, Heart |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**URINARY SYSTEM**

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

|                                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                              |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| <b>FISCHER 344 RATS FEMALE</b> | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>females<br/>(cont...)</b> |
|                                | 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 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |                              |
| <b>25 ppm</b>                  | 5           | 7 | 3 | 4 | 5 | 7 | 0 | 1 | 1 | 2 | 3 | 3 | 3 | 5 | 6 | 6 | 7 | 8 | 9 | 9 | 0 | 1 | 1 | 1 |                              |
|                                | 1           | 0 | 5 | 1 | 1 | 1 | 0 | 0 | 3 | 5 | 3 | 9 | 9 | 3 | 1 | 1 | 5 | 9 | 1 | 4 | 9 | 2 | 7 | 9 |                              |
|                                | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |                              |
|                                | 2           | 0 | 2 | 1 | 3 | 1 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 0 | 1 | 2 | 0 | 3 | 4 | 4 | 2 | 0 | 1 | 1 |                              |
|                                | 1           | 7 | 9 | 3 | 6 | 5 | 1 | 7 | 5 | 8 | 9 | 5 | 7 | 9 | 9 | 6 | 3 | 4 | 6 | 0 | 3 | 8 | 8 | 4 |                              |

Mesenchymal Tumor Malignant  
 Schwannoma Malignant, Metastatic, Heart

X

X

Urinary Bladder  
 Leiomyosarcoma, Metastatic, Vagina

+  
 X

**SYSTEMIC LESIONS**

Multiple Organ  
 Leukemia Mononuclear  
 Mesothelioma Malignant

+  
 X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| DAY ON TEST | FISCHER 344 RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |      |      |      |
|-------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|
|             | 0731                    | 0731 | 0731 | 0731 | 0731 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 |          | 0732 | 0732 |      |      |
| 25 ppm      | ANIMAL ID               | 0031 | 0033 | 0033 | 0033 | 0033 | 0034 | 0038 | 0031 | 0035 | 0036 | 0031 | 0032 | 0036 | 0030 | 0032 | 0035 | 0038 | 0034 | 0039 | 0030     | 0032 | 0034 | 0037 | 0032 |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Intestine Large, Cecum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48      |
| Intestine Large, Colon  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Intestine Large, Rectum<br>Leiomyosarcoma, Metastatic, Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50<br>1 |
| Intestine Small, Duodenum                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Intestine Small, Ileum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48      |
| Intestine Small, Jejunum                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48      |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Mesentery   |   |   | + |   | + |   |   | + |   | + |   |   | + |   | + |   |   | + |   |   | + |   |   | + | 20      |
| Oral Mucosa<br>Squamous Cell Papilloma                        |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1<br>1  |
| Pancreas<br>Acinus, Adenoma                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   | 50<br>1 |
| Salivary Glands<br>Schwannoma Malignant, Metastatic, Heart    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   | 50<br>1 |
| Stomach, Forestomach  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>25 ppm              | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      |                       |                       |
| ANIMAL ID                                      | 0<br>0<br>3<br>1<br>7 | 0<br>0<br>3<br>3<br>0 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>3 | 0<br>0<br>3<br>3<br>4 | 0<br>0<br>3<br>0<br>8 | 0<br>0<br>3<br>0<br>1 | 0<br>0<br>3<br>0<br>5 | 0<br>0<br>3<br>0<br>6 | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>4<br>4 | 0<br>0<br>3<br>4<br>5 | 0<br>0<br>3<br>0<br>0 | 0<br>0<br>3<br>1<br>2 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>4<br>7 |
| Stomach, Glandular                             | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| <b>CARDIOVASCULAR SYSTEM</b>                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Blood Vessel                                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Aorta, Schwannoma Malignant, Metastatic, Heart |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Heart  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Schwannoma Malignant                           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| <b>ENDOCRINE SYSTEM</b>                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Adrenal Cortex                                 | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Adenoma  |                       | X                     |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       | 3                     |
| Carcinoma                                      |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Adrenal Medulla                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Pheochromocytoma Benign                        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     | X                     |                       | X                     | X                     |                       |                       |                       |                       | X                     |                       | 5                     |
| Islets, Pancreatic                             | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Carcinoma                                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| Parathyroid Gland                              | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | M                     | +                     | +                     | +                     | M                     | 46                    |
| Adenoma  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       | 1                     |
| Pituitary Gland                                | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | I                     | +                     | +                     | +                     | +                     | +                     | +                     | 49                    |
| Pars Distalis, Adenoma                         | X                     | X                     | X                     | X                     |                       |                       | X                     | X                     | X                     | X                     | X                     |                       |                       | X                     | X                     |                       | X                     | X                     | X                     | X                     | X                     | 36                    |
| Pars Distalis, Carcinoma                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 2                     |
| Thyroid Gland                                  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |
| Schwannoma Malignant, Metastatic, Heart        |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |
| C-cell, Adenoma                                |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       | 4                     |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

|                                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                 |   |   |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---|---|
| <b>FISCHER 344 RATS FEMALE</b> | DAY ON TEST | 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 |
|                                | ANIMAL ID   | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7               | 7 | 7 |
| <b>25 ppm</b>                  |             | 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 |
|                                |             | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 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 |
|                                |             | 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 |
|                                |             | 1 | 3 | 3 | 3 | 3 | 4 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 4 | 4 | 5 | 0 | 1 | 2 | 2 | 4               | 4 | 4 |
|                                |             | 7 | 0 | 1 | 2 | 3 | 8 | 1 | 5 | 6 | 1 | 2 | 6 | 0 | 2 | 5 | 8 | 4 | 9 | 0 | 2 | 0 | 4 | 7 | 2               | 3 |   |
|                                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>* TOTALS</b> |   |   |

C-cell, Carcinoma  
Follicular Cell, Adenoma

X  
X  
X X X  
X

6  
2

GENERAL BODY SYSTEM

Peritoneum

1

GENITAL SYSTEM

Clitoral Gland  
Adenoma

+ + + + + M + + + + + + + + + + + + + + + + M  
X X X X X X X X X X

48  
8

Ovary  
Granulosa Cell Tumor Benign  
Granulosa-Theca Tumor Benign

+  
X  
X X

50  
1  
1

Uterus  
Polyp Stromal

+  
X X

50  
9

Vagina  
Granular Cell Tumor Benign  
Leiomyosarcoma

+  
X  
X X

2  
1  
1

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

50

Lymph Node

2

Lymph Node, Bronchial

+ M + M

7

Lymph Node, Mandibular

M M

0

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

| FISCHER 344 RATS FEMALE<br>25 ppm | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |
|-----------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                                   | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      |                       | 0<br>7<br>3<br>3      |
| ANIMAL ID                         | 0<br>0<br>3<br>1<br>7 | 0<br>0<br>3<br>3<br>0 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>3 | 0<br>0<br>3<br>4<br>8 | 0<br>0<br>3<br>0<br>1 | 0<br>0<br>3<br>0<br>5 | 0<br>0<br>3<br>0<br>6 | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>1<br>2 | 0<br>0<br>3<br>1<br>2 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>4<br>4 | 0<br>0<br>3<br>4<br>5 | 0<br>0<br>3<br>0<br>1 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>4<br>7 | 0<br>0<br>3<br>4<br>2 |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                       |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------|
| Lymph Node, Mediastinal<br>Carcinoma, Metastatic, Thyroid Gland | M | M | + | + | + | + | M | M | + | + | + | + | M | M | + | M | + | + | + | M | + | M | M | + | + |   | <b>26</b><br><b>1</b> |
| Lymph Node, Mesenteric  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>             |
| Spleen<br>Schwannoma Malignant, Metastatic, Heart               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b><br><b>1</b> |
| Thymus<br>Thymoma Benign  | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>45</b><br><b>1</b> |

INTEGUMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                       |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------|
| Mammary Gland<br>Carcinoma, Multiple      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   | <b>50</b><br><b>1</b> |
| Fibroadenoma                              | X |   |   | X |   | X | X |   | X |   |   |   | X |   |   | X | X |   |   |   |   | X |   | X |   |   | <b>18</b>             |
| Fibroadenoma, Multiple                    |   |   | X |   | X |   |   |   |   | X | X |   |   | X |   |   |   |   | X | X |   |   | X |   |   |   | <b>16</b>             |
| Schwannoma Malignant, Metastatic, Heart   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>              |
| Skin                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>             |
| Basal Cell Adenoma                        |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>              |
| Subcutaneous Tissue, Fibroma              |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</b>              |
| Subcutaneous Tissue, Neural Crest Tumor   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>              |
| Subcutaneous Tissue, Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | <b>1</b>              |

MUSCULOSKELETAL SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                       |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------|
| Bone<br>Osteoma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b><br><b>1</b> |
| Skeletal Muscle<br>Schwannoma Malignant, Metastatic, Heart |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | <b>2</b><br><b>1</b>  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |  |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--|
|                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |  |
| 25 ppm                  | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |          |  |
| 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 |          |  |
|                         | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |          |  |
|                         | 1           | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 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 |          |  |
|                         | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |          |  |
|                         | 1           | 3 | 3 | 3 | 3 | 4 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 4 | 4 | 5 | 0 | 1 | 2 | 2 | 4 | 4        |  |
|                         | 7           | 0 | 1 | 2 | 3 | 8 | 1 | 5 | 6 | 1 | 2 | 6 | 0 | 2 | 5 | 8 | 4 | 9 | 0 | 2 | 0 | 4 | 7 | 2 | 3        |  |

**NERVOUS SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma, Metastatic, Pituitary Gland |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Oligodendroglioma Benign               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | 1  |

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Larynx  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Schwannoma Malignant, Metastatic, Heart         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mesenchymal Tumor Malignant, Metastatic, Kidney |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Schwannoma Malignant, Metastatic, Heart         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Pleura  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   | 1  |
| Trachea   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Schwannoma Malignant, Metastatic, Heart         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**SPECIAL SENSES SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Harderian Gland                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Schwannoma Malignant, Metastatic, Heart |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**URINARY SYSTEM**

|        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| DAY ON TEST                             | FISCHER 344 RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |
|---|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
|   | 0731                    | 0731 | 0731 | 0731 | 0731 | 0731 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 |          | 0732 |
| 25 ppm                                  | ANIMAL ID               | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001     |      |
|   |                         | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731     | 0731 |
| Mesenchymal Tumor Malignant             |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 1    |
| Schwannoma Malignant, Metastatic, Heart |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 1    |
| Urinary Bladder                         | +                       | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50   |
| Leiomyosarcoma, Metastatic, Vagina      |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 1    |
| <b>SYSTEMIC LESIONS</b>                 |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| Multiple Organ                          | +                       | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50   |
| Leukemia Mononuclear                    |                         |      | X    |      |      |      |      |      |      | X    | X    |      |      |      |      |      |      |      |      |      |      |      |      | X    |          | 11   |
| Mesothelioma Malignant                  |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |          | 1    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | females<br>(cont...)  |                       |
|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|                         | 0<br>4<br>2<br>1      | 0<br>4<br>2<br>3      | 0<br>5<br>1<br>4      | 0<br>5<br>1<br>4      | 0<br>5<br>2<br>6      | 0<br>5<br>6<br>3      | 0<br>5<br>6<br>3      | 0<br>5<br>7<br>9      | 0<br>5<br>8<br>3      | 0<br>5<br>0<br>3      | 0<br>6<br>0<br>6      | 0<br>6<br>2<br>1      | 0<br>6<br>3<br>4      | 0<br>6<br>5<br>9      | 0<br>6<br>6<br>3      | 0<br>6<br>7<br>0      | 0<br>6<br>7<br>2      | 0<br>6<br>9<br>5      | 0<br>7<br>1<br>6      | 0<br>7<br>2<br>9      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      |                       | 0<br>7<br>3<br>1      |
| 50 ppm                  | 0<br>0<br>5<br>4<br>8 | 0<br>0<br>5<br>4<br>2 | 0<br>0<br>5<br>3<br>0 | 0<br>0<br>5<br>3<br>7 | 0<br>0<br>5<br>2<br>6 | 0<br>0<br>5<br>0<br>4 | 0<br>0<br>5<br>2<br>7 | 0<br>0<br>5<br>3<br>9 | 0<br>0<br>5<br>0<br>1 | 0<br>0<br>5<br>3<br>3 | 0<br>0<br>5<br>2<br>5 | 0<br>0<br>5<br>1<br>3 | 0<br>0<br>5<br>0<br>7 | 0<br>0<br>5<br>3<br>2 | 0<br>0<br>5<br>1<br>9 | 0<br>0<br>5<br>1<br>4 | 0<br>0<br>5<br>0<br>8 | 0<br>0<br>5<br>2<br>8 | 0<br>0<br>5<br>4<br>9 | 0<br>0<br>5<br>3<br>5 | 0<br>0<br>5<br>3<br>6 | 0<br>0<br>5<br>0<br>2 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>1<br>7 |

**ALIMENTARY SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum             | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + |
| Intestine Large, Colon             | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + |
| Intestine Large, Rectum<br>Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + |
| Intestine Small, Duodenum          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + |
| Intestine Small, Ileum             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + |
| Intestine Small, Jejunum           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + |
| Liver<br>Hepatocellular Adenoma    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery                          |   |   |   |   |   | + |   | + | + |   | + |   | + |   | + |   | + | + | + |   | + | + | + |
| Pancreas                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**CARDIOVASCULAR SYSTEM**

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

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>50 ppm | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                       | ANIMAL ID             | females<br>(cont...) |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------------|-----------------------|----------------------|
|                                   | 0<br>4<br>2<br>1 | 0<br>4<br>2<br>3 | 0<br>5<br>1<br>4 | 0<br>5<br>1<br>4 | 0<br>5<br>2<br>6 | 0<br>5<br>6<br>3 | 0<br>5<br>6<br>3 | 0<br>5<br>7<br>9 | 0<br>5<br>8<br>3 | 0<br>6<br>0<br>3 | 0<br>6<br>0<br>6 | 0<br>6<br>2<br>1 | 0<br>6<br>3<br>4 | 0<br>6<br>5<br>9 | 0<br>6<br>6<br>3 | 0<br>6<br>7<br>0 | 0<br>6<br>7<br>2 | 0<br>6<br>7<br>8 | 0<br>7<br>1<br>5 | 0<br>7<br>2<br>6 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1      |                       |                      |
|                                   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0<br>0<br>5<br>4<br>8 | 0<br>0<br>5<br>4<br>8 |                      |

**ENDOCRINE SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex<br>Adenoma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adrenal Medulla<br>Pheochromocytoma Benign<br>Pheochromocytoma Malignant<br>Bilateral, Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Islets, Pancreatic<br>Adenoma<br>Carcinoma   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland  | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M |
| Pituitary Gland<br>Pars Distalis, Adenoma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + |
| Thyroid Gland<br>C-cell, Adenoma<br>C-cell, Carcinoma  | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**GENERAL BODY SYSTEM**

|            |   |
|------------|---|
| Peritoneum | + |
|------------|---|

**GENITAL SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland<br>Adenoma | + | + | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | females<br>(cont...) |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
|                         | 04          | 04    | 05    | 05    | 05    | 05    | 05    | 05    | 05    | 05    | 05    | 05    | 05    | 05    | 05    | 05    | 05    | 05    | 05    | 05    | 05    | 05    | 05    | 05    |                      |
| 50 ppm                  | 21          | 23    | 14    | 14    | 26    | 63    | 63    | 79    | 83    | 03    | 03    | 26    | 34    | 59    | 63    | 70    | 72    | 85    | 96    | 116   | 133   | 133   | 133   | 133   |                      |
| ANIMAL ID               | 00548       | 00544 | 00543 | 00533 | 00520 | 00507 | 00504 | 00503 | 00501 | 00500 | 00500 | 00500 | 00500 | 00500 | 00500 | 00500 | 00500 | 00500 | 00500 | 00500 | 00500 | 00500 | 00500 | 00500 |                      |

Granulosa Cell Tumor Malignant  
 Yolk Sac Carcinoma

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Uterus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Polyp Stromal          |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Sarcoma Stromal        |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Endometrium, Carcinoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**HEMATOPOIETIC SYSTEM**

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node              |   |   |   | + |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Bronchial   | M | + | M | M | M | + | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M |
| Lymph Node, Mandibular  | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Lymph Node, Mediastinal | + | + | + | M | M | + | M | M | + | + | + | M | M | M | + | M | + | + | M | M | M | M | M | + |
| Lymph Node, Mesenteric  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus                  | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | M | + | + | + | + | + | + | + |
| Thymoma Malignant       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**INTEGUMENTARY SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Fibroadenoma           |   |   | X |   |   |   | X | X | X |   |   | X | X |   |   |   | X | X | X |   | X | X |   | X |
| Fibroadenoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   | X |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20303 - 05

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 12/12/2011

Test Type: CHRONIC

Vinylidene chloride

Time Report Requested: 09:47:55

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 75-35-4

First Dose M/F: 06/06/05 / 06/06/05

Species/Strain: RATS/F 344/N

Lab: BNW

| FISCHER 344 RATS FEMALE<br>50 ppm | DAY ON TEST | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | ANIMAL ID         |  |
|-----------------------------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|--|
|                                   | 0 4         | 0 4 | 0 5 | 0 5 | 0 5 | 0 5 | 0 5 | 0 5 | 0 5 | 0 6 | 0 6 | 0 6 | 0 6 | 0 6 | 0 6 | 0 6 | 0 6 | 0 6 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 | 0 7 |                   |  |
|                                   | 2           | 2   | 1   | 1   | 2   | 6   | 6   | 7   | 8   | 0   | 0   | 2   | 3   | 5   | 6   | 7   | 7   | 9   | 1   | 2   | 3   | 3   | 3   | 3   | 0 2 |                   |  |
|                                   | 1           | 3   | 4   | 4   | 6   | 3   | 3   | 9   | 3   | 3   | 6   | 1   | 4   | 9   | 3   | 0   | 2   | 8   | 5   | 6   | 9   | 1   | 1   | 1   | 0 4 |                   |  |
|                                   |             | 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 5 |                   |  |
|                                   |             | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 5   | 0 4 |                   |  |
|                                   |             | 4   | 4   | 3   | 3   | 2   | 0   | 2   | 3   | 0   | 3   | 2   | 1   | 0   | 3   | 1   | 1   | 0   | 2   | 4   | 3   | 3   | 0   | 1   | 4 3 |                   |  |
|                                   |             | 8   | 2   | 0   | 7   | 6   | 4   | 7   | 9   | 1   | 3   | 5   | 3   | 7   | 2   | 9   | 4   | 8   | 8   | 9   | 5   | 6   | 2   | 1   | 0 8 | females (cont...) |  |

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Skin                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |
| Keratoacanthoma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Subcutaneous Tissue, Fibroma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Subcutaneous Tissue, Sarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |

MUSCULOSKELETAL SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Chondroma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Skeletal Muscle |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Sarcoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Larynx  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Alveolar/Bronchiolar Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Sarcoma, Metastatic, Skeletal Muscle                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Trachea   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |

SPECIAL SENSES SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

|                                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                              |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------------------------------|
| <b>FISCHER 344 RATS FEMALE</b> | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>females<br/>(cont...)</b> |
|                                | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |                              |
| <b>50 ppm</b>                  | ANIMAL ID   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>females<br/>(cont...)</b> |
|                                | 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 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |                              |
|                                | 4           | 4 | 3 | 3 | 2 | 0 | 2 | 3 | 0 | 3 | 2 | 1 | 0 | 3 | 1 | 1 | 0 | 2 | 4 | 3 | 3 | 0 | 1 | 1 |                              |
|                                | 8           | 2 | 0 | 7 | 6 | 4 | 7 | 9 | 1 | 3 | 5 | 3 | 7 | 2 | 9 | 4 | 8 | 8 | 9 | 5 | 6 | 2 | 1 | 7 |                              |

Eye +

Harderian Gland +

Lacrimal Gland

Zymbal's Gland  
Carcinoma

URINARY SYSTEM

Kidney +  
Renal Tubule, Adenoma X

Urinary Bladder +

SYSTEMIC LESIONS

Multiple Organ +  
Leukemia Mononuclear X X X X X X X X X X X X X X X X X X  
Mesothelioma Malignant X

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue

M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
|                         | 0731        | 0731  | 0731  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  |          | 0732  |
| 50 ppm                  | 00529       | 00523 | 00533 | 00544 | 00533 | 00505 | 00509 | 00505 | 00516 | 00500 | 00502 | 00502 | 00502 | 00502 | 00504 | 00505 | 00500 | 00506 | 00500 | 00502 | 00508 | 00508 | 00501 | 00504 | 00506    | 00507 |

**ALIMENTARY SYSTEM**

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Esophagus                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Intestine Large, Cecum             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48      |
| Intestine Large, Colon             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48      |
| Intestine Large, Rectum<br>Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49<br>1 |
| Intestine Small, Duodenum          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Intestine Small, Ileum             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Intestine Small, Jejunum           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49      |
| Liver<br>Hepatocellular Adenoma    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50<br>1 |
| Mesentery                          |   |   |   | + |   | + |   |   |   | + |   | + | + |   | + |   |   | + |   | + | + | + | + |   |   | 23      |
| Pancreas                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Salivary Glands                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Stomach, Forestomach               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |
| Stomach, Glandular                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |

**CARDIOVASCULAR SYSTEM**

|       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 12/12/2011

Test Type: CHRONIC

Vinylidene chloride

Time Report Requested: 09:47:55

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 75-35-4

First Dose M/F: 06/06/05 / 06/06/05

Species/Strain: RATS/F 344/N

Lab: BNW

| DAY ON TEST             |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        |
|-------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| FISCHER 344 RATS FEMALE |  | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7        |
| 50 ppm                  |  | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3        |
| ANIMAL ID               |  | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 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        |
|                         |  | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |          |
|                         |  | 2 | 3 | 3 | 4 | 0 | 0 | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 4 | 4 | 5 | 0 | 1 | 1 | 1 | 3 | 4 | 4        |
|                         |  | 9 | 1 | 4 | 3 | 3 | 5 | 9 | 5 | 6 | 0 | 2 | 3 | 4 | 0 | 5 | 0 | 6 | 0 | 2 | 8 | 8 | 1 | 4        |
|                         |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |

ENDOCRINE SYSTEM

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Adrenal Cortex                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |
| Adenoma                            |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |
| Adrenal Medulla                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |
| Pheochromocytoma Benign            |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |    | 1  |
| Pheochromocytoma Malignant         |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |    | 2  |
| Bilateral, Pheochromocytoma Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |    | 1  |
| Islets, Pancreatic                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |
| Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |
| Carcinoma                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |
| Parathyroid Gland                  | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | 45 |    |
| Pituitary Gland                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 49 |
| Pars Distalis, Adenoma             | X | X | X | X |   |   | X |   | X |   | X | X | X | X |   |   |   | X | X |   | X | X |    | 25 |
| Thyroid Gland                      | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |    |
| C-cell, Adenoma                    |   | X |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 6  |    |
| C-cell, Carcinoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |    |

GENERAL BODY SYSTEM

|            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Peritoneum |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |
|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|

GENITAL SYSTEM

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Clitoral Gland | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 45 |
| Adenoma        |   |   |   |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 3  |
| Ovary          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>50 ppm | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|
|                                   | 0731        | 0731  | 0731  | 0731  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  |          | 0732  |
| ANIMAL ID                         | 00529       | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529    | 00529 |
|                                   | 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     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7        | 7     |
|                                   | 3           | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3        | 3     |
|                                   | 1           | 1     | 1     | 1     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2        | 2     |

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Granulosa Cell Tumor Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Yolk Sac Carcinoma             |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Uterus                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Polyp Stromal                  |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 4  |
| Sarcoma Stromal                |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Endometrium, Carcinoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | 1  |

**HEMATOPOIETIC SYSTEM**

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node              |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   | + |   |   |   |   |   |   | 4  |
| Lymph Node, Bronchial   | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | 4  |
| Lymph Node, Mandibular  | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1  |
| Lymph Node, Mediastinal | + | M | M | + | + | M | + | M | + | + | + | M | M | + | M | + | + | M | + | + | + | + | 29 |
| Lymph Node, Mesenteric  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Thymus                  | M | + | + | + | + | M | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | 42 |
| Thymoma Malignant       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1  |

**INTEGUMENTARY SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 2  |
| Fibroadenoma           |   |   |   |   |   |   | X |   |   |   | X | X | X | X |   |   |   |   |   |   | X | X | 21 |
| Fibroadenoma, Multiple | X | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   | X | X | X |   | X |   | 10 |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>50 ppm                       | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |    |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|
|   | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      |                       |    |
| ANIMAL ID   | 0<br>0<br>5<br>2<br>9 | 0<br>0<br>5<br>3<br>1 | 0<br>0<br>5<br>3<br>4 | 0<br>0<br>5<br>4<br>3 | 0<br>0<br>5<br>0<br>3 | 0<br>0<br>5<br>0<br>5 | 0<br>0<br>5<br>0<br>9 | 0<br>0<br>5<br>1<br>5 | 0<br>0<br>5<br>1<br>6 | 0<br>0<br>5<br>2<br>0 | 0<br>0<br>5<br>2<br>2 | 0<br>0<br>5<br>2<br>2 | 0<br>0<br>5<br>2<br>2 | 0<br>0<br>5<br>4<br>4 | 0<br>0<br>5<br>4<br>5 | 0<br>0<br>5<br>0<br>0 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>3<br>4 | 0<br>0<br>5<br>4<br>4 | 0<br>0<br>5<br>4<br>6 |    |
| Skin  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |
| Keratoacanthoma   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1  |
| Subcutaneous Tissue, Fibroma                            | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       | 2  |
| Subcutaneous Tissue, Sarcoma                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     | 1  |
| <b>MUSCULOSKELETAL SYSTEM</b>                           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |    |
| Bone  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |
| Chondroma   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1  |
| Skeletal Muscle   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | +                     |                       |                       |                       |                       |                       |                       | 3  |
| Sarcoma   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1  |
| <b>NERVOUS SYSTEM</b>                                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |    |
| Brain   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |
| <b>RESPIRATORY SYSTEM</b>                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |    |
| Larynx  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |
| Lung  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |
| Alveolar/Bronchiolar Adenoma                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     | 4  |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1  |
| Sarcoma, Metastatic, Skeletal Muscle                    |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1  |
| Nose  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |
| Trachea   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50 |
| <b>SPECIAL SENSES SYSTEM</b>                            |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |    |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>50 ppm                                | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------|
|  | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      |                       |          |
| ANIMAL ID  | 0<br>0<br>5<br>2<br>9 | 0<br>0<br>5<br>3<br>1 | 0<br>0<br>5<br>3<br>4 | 0<br>0<br>5<br>4<br>3 | 0<br>0<br>5<br>0<br>3 | 0<br>0<br>5<br>0<br>5 | 0<br>0<br>5<br>0<br>9 | 0<br>0<br>5<br>1<br>5 | 0<br>0<br>5<br>1<br>6 | 0<br>0<br>5<br>2<br>0 | 0<br>0<br>5<br>2<br>2 | 0<br>0<br>5<br>2<br>2 | 0<br>0<br>5<br>2<br>2 | 0<br>0<br>5<br>2<br>2 | 0<br>0<br>5<br>4<br>4 | 0<br>0<br>5<br>4<br>5 | 0<br>0<br>5<br>0<br>0 | 0<br>0<br>5<br>0<br>6 | 0<br>0<br>5<br>1<br>0 | 0<br>0<br>5<br>1<br>8 | 0<br>0<br>5<br>3<br>8 | 0<br>0<br>5<br>4<br>1 | 0<br>0<br>5<br>4<br>4 | 0<br>0<br>5<br>4<br>6 |          |
| Eye  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |          |
| Harderian Gland  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |          |
| Lacrimal Gland   |                       |                       |                       |                       |                       |                       |                       | +                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 1                     |          |
| Zymbal's Gland<br>Carcinoma                                      |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | +                     | X                     |                       |                       | 1                     |          |
| <b>URINARY SYSTEM</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Kidney<br>Renal Tubule, Adenoma                                  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50<br>1               |          |
| Urinary Bladder  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50                    |          |
| <b>SYSTEMIC LESIONS</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |          |
| Multiple Organ<br>Leukemia Mononuclear<br>Mesothelioma Malignant | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | 50<br>13<br>1         |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID        | females<br>(cont...) |                  |                  |                  |
|-------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|------------------|------------------|------------------|
|                         | 0<br>1<br>1<br>6 | 0<br>3<br>9<br>5 | 0<br>5<br>6<br>7 | 0<br>5<br>7<br>9 | 0<br>5<br>8<br>6 | 0<br>6<br>0<br>7 | 0<br>6<br>2<br>8 | 0<br>6<br>4<br>2 | 0<br>6<br>4<br>2 | 0<br>6<br>4<br>5 | 0<br>6<br>5<br>5 | 0<br>6<br>5<br>5 | 0<br>6<br>5<br>6 | 0<br>6<br>5<br>6 | 0<br>6<br>6<br>6 | 0<br>6<br>6<br>6 | 0<br>6<br>7<br>6 | 0<br>6<br>7<br>7 | 0<br>6<br>8<br>3 | 0<br>6<br>9<br>1 |                  |                      | 0<br>6<br>9<br>7 | 0<br>6<br>9<br>8 | 0<br>7<br>0<br>1 |
| 100 ppm                 | 0<br>7<br>3<br>7 | 0<br>0<br>0<br>2 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>8 | 0<br>0<br>4<br>5 | 0<br>0<br>4<br>7 | 0<br>0<br>2<br>6 | 0<br>0<br>2<br>9 | 0<br>0<br>2<br>0 | 0<br>0<br>2<br>2 | 0<br>0<br>1<br>3 | 0<br>0<br>2<br>4 | 0<br>0<br>0<br>1 | 0<br>0<br>1<br>7 | 0<br>0<br>4<br>2 | 0<br>0<br>3<br>1 | 0<br>0<br>2<br>8 | 0<br>0<br>3<br>4 | 0<br>0<br>4<br>8 | 0<br>0<br>4<br>8 | 0<br>0<br>4<br>0 | 0<br>0<br>5<br>4     | 0<br>0<br>3<br>1 | 0<br>0<br>1<br>6 |                  |

**ALIMENTARY SYSTEM**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum           | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + |
| Intestine Large, Colon           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum           | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum         | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Adenoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery                        |   | + |   | + |   | + | + | + |   |   | + |   |   |   | + |   |   |   |   | + |   |   | + | + |
| Oral Mucosa                      |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**CARDIOVASCULAR SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br><br>100 ppm  | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | females<br>(cont...)  |                  |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
|   | 0<br>1<br>1<br>6      | 0<br>3<br>9<br>5      | 0<br>5<br>6<br>7      | 0<br>5<br>7<br>9      | 0<br>5<br>8<br>6      | 0<br>6<br>0<br>7      | 0<br>6<br>2<br>8      | 0<br>6<br>4<br>2      | 0<br>6<br>4<br>2      | 0<br>6<br>4<br>5      | 0<br>6<br>5<br>5      | 0<br>6<br>5<br>5      | 0<br>6<br>5<br>6      | 0<br>6<br>5<br>6      | 0<br>6<br>5<br>6      | 0<br>6<br>6<br>9      | 0<br>6<br>7<br>0      | 0<br>6<br>7<br>6      | 0<br>6<br>7<br>7      | 0<br>6<br>8<br>3      | 0<br>6<br>9<br>1      | 0<br>6<br>9<br>7      | 0<br>6<br>9<br>8      | 0<br>7<br>0<br>1      |                       | 0<br>7<br>0<br>3 |
| ANIMAL ID   | 0<br>0<br>7<br>3<br>7 | 0<br>0<br>7<br>0<br>2 | 0<br>0<br>7<br>1<br>0 | 0<br>0<br>7<br>1<br>8 | 0<br>0<br>7<br>4<br>5 | 0<br>0<br>7<br>4<br>7 | 0<br>0<br>7<br>2<br>6 | 0<br>0<br>7<br>0<br>9 | 0<br>0<br>7<br>2<br>0 | 0<br>0<br>7<br>2<br>2 | 0<br>0<br>7<br>1<br>3 | 0<br>0<br>7<br>2<br>4 | 0<br>0<br>7<br>0<br>1 | 0<br>0<br>7<br>1<br>7 | 0<br>0<br>7<br>4<br>2 | 0<br>0<br>7<br>3<br>1 | 0<br>0<br>7<br>2<br>3 | 0<br>0<br>7<br>3<br>8 | 0<br>0<br>7<br>1<br>4 | 0<br>0<br>7<br>2<br>8 | 0<br>0<br>7<br>4<br>8 | 0<br>0<br>7<br>4<br>8 | 0<br>0<br>7<br>5<br>0 | 0<br>0<br>7<br>3<br>4 | 0<br>0<br>7<br>1<br>6 |                  |
| Heart   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                |
| <b>ENDOCRINE SYSTEM</b>   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |
| Adrenal Cortex<br>Adenoma   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                |
| Adrenal Medulla<br>Pheochromocytoma Benign<br>Bilateral, Pheochromocytoma Benign  | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                |
| Islets, Pancreatic<br>Adenoma   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                |
| Parathyroid Gland   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                |
| Pituitary Gland<br>Pars Distalis, Adenoma<br>Pars Distalis, Carcinoma             | +                     | +                     | I                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                |
| Thyroid Gland<br>C-cell, Adenoma<br>C-cell, Carcinoma<br>Follicular Cell, Adenoma | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                |
| <b>GENERAL BODY SYSTEM</b>  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |
| Peritoneum  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |
| <b>GENITAL SYSTEM</b>   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                  |
| Clitoral Gland<br>Adenoma   | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

| FISCHER 344 RATS FEMALE | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  | females<br>(cont...) |
|-------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----------------------|
|                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |                      |
| 100 ppm                 | 1           | 3 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 |  |                      |
|                         | 6           | 5 | 7 | 9 | 6 | 7 | 8 | 2 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 9 | 9 | 9 | 0 |  |                      |
|                         | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |  |                      |
|                         | 3           | 0 | 1 | 1 | 4 | 4 | 2 | 0 | 2 | 2 | 1 | 2 | 0 | 1 | 4 | 3 | 2 | 3 | 1 | 2 | 4 | 4 | 5 |  |                      |
|                         | 7           | 2 | 0 | 8 | 5 | 7 | 6 | 9 | 0 | 2 | 3 | 4 | 1 | 7 | 2 | 1 | 3 | 8 | 4 | 8 | 8 | 0 | 4 |  |                      |
|                         | 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 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |  |                      |
|                         | 3           | 0 | 1 | 1 | 4 | 4 | 2 | 0 | 2 | 2 | 1 | 2 | 0 | 1 | 4 | 3 | 2 | 3 | 1 | 2 | 4 | 4 | 5 |  |                      |
|                         | 7           | 2 | 0 | 8 | 5 | 7 | 6 | 9 | 0 | 2 | 3 | 4 | 1 | 7 | 2 | 1 | 3 | 8 | 4 | 8 | 8 | 0 | 4 |  |                      |

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Carcinoma              | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Ovary                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Uterus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Polyp Stromal          |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | X |   |   |  |
| Endometrium, Carcinoma |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |  |
| Vagina                 |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |  |
| Polyp                  |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |  |

HEMATOPOIETIC SYSTEM

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node              |   |   |   |   | + | + | + |   |   |   |   |   |   |   |   |   |   |   | + |   |   | + | + |
| Lymph Node, Bronchial   | M | M | M | + | + | M | + | + | M | M | M | M | + | M | M | M | M | + | M | M | M | + | M |
| Lymph Node, Mandibular  | M | M | + | M | M | M | + | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M |
| Lymph Node, Mediastinal | + | + | M | M | + | + | M | M | + | + | + | + | + | + | + | + | + | + | M | M | M | M | + |
| Lymph Node, Mesenteric  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus                  | + | + | + | + | + | + | + | + | M | + | M | + | M | + | + | + | + | + | M | M | + | M | + |

INTEGUMENTARY SYSTEM

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>100 ppm       | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|
|  | 0<br>1<br>1<br>6 | 0<br>3<br>9<br>5 | 0<br>5<br>6<br>7 | 0<br>5<br>7<br>9 | 0<br>5<br>8<br>6 | 0<br>6<br>0<br>7 | 0<br>6<br>2<br>8 | 0<br>6<br>4<br>2 | 0<br>6<br>4<br>2 | 0<br>6<br>4<br>5 | 0<br>6<br>5<br>5 | 0<br>6<br>5<br>5 | 0<br>6<br>5<br>6 | 0<br>6<br>5<br>6 | 0<br>6<br>6<br>6 | 0<br>6<br>6<br>6 | 0<br>6<br>7<br>6 | 0<br>6<br>7<br>7 | 0<br>6<br>8<br>3 | 0<br>6<br>9<br>1 | 0<br>6<br>9<br>7 | 0<br>6<br>9<br>8 | 0<br>6<br>7<br>1 | 0<br>6<br>0<br>3 |           |                      |
| Fibroadenoma                             |                  |                  |                  |                  |                  |                  |                  | X                | X                |                  | X                | X                | X                |                  | X                | X                | X                | X                |                  |                  | X                | X                | X                | X                |           |                      |
| Fibroadenoma, Multiple                   |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  | X                |                  |                  | X                |                  |           |                      |
| Skin                                     | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                      |
| <b>MUSCULOSKELETAL SYSTEM</b>            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Bone                                     | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                      |
| <b>NERVOUS SYSTEM</b>                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Brain                                    | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                      |
| Carcinoma, Metastatic, Pituitary Gland   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Oligodendroglioma Malignant              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| <b>RESPIRATORY SYSTEM</b>                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Larynx                                   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                      |
| Lung                                     | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                      |
| Alveolar/Bronchiolar Carcinoma, Multiple |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Nose                                     | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                      |
| Chondroma                                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Respiratory Epithelium, Adenoma          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Pleura                                   | +                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Trachea                                  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                      |
| <b>SPECIAL SENSES SYSTEM</b>             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |
| Eye                                      | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |           |                      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

| DAY ON TEST             | FISCHER 344 RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                         | 0116                    | 0135 | 0155 | 0167 | 0178 | 0180 | 0192 | 0204 | 0214 | 0224 | 0235 | 0245 | 0255 | 0265 | 0276 | 0286 | 0296 | 0306 | 0316 | 0326 | 0336 | 0346 | 0356 | 0366 |           |  | 0376 | 0386 | 0396 | 0406 | 0416 | 0426 | 0436 | 0446 | 0456 | 0466 | 0476 | 0486 | 0496 | 0506 | 0516 | 0526 | 0536 | 0546 | 0556 | 0566 | 0576 | 0586 | 0596 | 0606 | 0616 | 0626 | 0636 | 0646 | 0656 | 0666 | 0676 | 0686 | 0696 | 0706 | 0716 | 0726 | 0736 | 0746 | 0756 | 0766 | 0776 | 0786 | 0796 | 0806 | 0816 | 0826 | 0836 | 0846 | 0856 | 0866 | 0876 | 0886 | 0896 | 0906 | 0916 | 0926 | 0936 | 0946 | 0956 | 0966 | 0976 |
| 100 ppm                 |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 00737     |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Harderian Gland         | +                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Lacrimal Gland          |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <b>URINARY SYSTEM</b>   |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Kidney                  | +                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Urinary Bladder         | +                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <b>SYSTEMIC LESIONS</b> |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Multiple Organ          | +                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Histiocytic Sarcoma     |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Leukemia Mononuclear    | X                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Lymphoma Malignant      | X                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

females  
(cont...)

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 + .. Tissue examined microscopically  
 X .. Lesion present  
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Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
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**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>100 ppm | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | * TOTALS         |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                                    | 0<br>7<br>0<br>4 | 0<br>7<br>0<br>5 | 0<br>7<br>1<br>2 | 0<br>7<br>1<br>7 | 0<br>7<br>2<br>4 | 0<br>7<br>2<br>5 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 |                  |                  |
| ANIMAL ID                          | 0<br>7<br>0<br>5 | 0<br>7<br>0<br>3 | 0<br>7<br>1<br>9 | 0<br>7<br>2<br>7 | 0<br>7<br>4<br>1 | 0<br>7<br>0<br>6 | 0<br>7<br>0<br>8 | 0<br>7<br>0<br>5 | 0<br>7<br>0<br>9 | 0<br>7<br>0<br>0 | 0<br>7<br>0<br>9 | 0<br>7<br>0<br>6 | 0<br>7<br>0<br>7 | 0<br>7<br>0<br>1 | 0<br>7<br>0<br>1 | 0<br>7<br>0<br>2 | 0<br>7<br>0<br>3 | 0<br>7<br>0<br>3 | 0<br>7<br>0<br>3 | 0<br>7<br>0<br>0 | 0<br>7<br>0<br>1 | 0<br>7<br>0<br>2 | 0<br>7<br>0<br>3 | 0<br>7<br>0<br>4 | 0<br>7<br>0<br>9 |

**ALIMENTARY SYSTEM**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Large, Colon           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum          | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Duodenum        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Liver                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | 1  |
| Hepatocellular Adenoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | 1  |
| Mesentery                        | + |   | + | + | + |   | + |   | + |   |   | + |   |   | + |   |   | + | + | + |   | + |   | + |   | 24 |
| Oral Mucosa                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Salivary Glands                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Glandular               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

**CARDIOVASCULAR SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>100 ppm  | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                    | * TOTALS |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--------------------|----------|
|   | 0<br>7<br>0<br>4 | 0<br>7<br>0<br>5 | 0<br>7<br>1<br>2 | 0<br>7<br>1<br>7 | 0<br>7<br>2<br>4 | 0<br>7<br>2<br>5 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 |                    |          |
| ANIMAL ID   | 0<br>7<br>0<br>5 | 0<br>7<br>0<br>3 | 0<br>7<br>0<br>9 | 0<br>7<br>0<br>7 | 0<br>7<br>0<br>1 | 0<br>7<br>0<br>6 | 0<br>7<br>0<br>8 | 0<br>7<br>0<br>5 | 0<br>7<br>0<br>9 | 0<br>7<br>0<br>0 | 0<br>7<br>0<br>9 | 0<br>7<br>0<br>6 | 0<br>7<br>0<br>7 | 0<br>7<br>0<br>1 | 0<br>7<br>0<br>2 | 0<br>7<br>0<br>3 | 0<br>7<br>0<br>3 | 0<br>7<br>0<br>3 | 0<br>7<br>0<br>3 | 0<br>7<br>0<br>0 | 0<br>7<br>0<br>1 | 0<br>7<br>0<br>2 | 0<br>7<br>0<br>3 |                    |          |
| Heart   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 50                 |          |
| <b>ENDOCRINE SYSTEM</b>   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                    |          |
| Adrenal Cortex<br>Adenoma   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 50<br>1            |          |
| Adrenal Medulla<br>Pheochromocytoma Benign<br>Bilateral, Pheochromocytoma Benign  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 49<br>1<br>1       |          |
| Islets, Pancreatic<br>Adenoma   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 50<br>1            |          |
| Parathyroid Gland   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | M                | +                | +                | +                | +                | +                | +                | +                | I                | +                | +                | 47                 |          |
| Pituitary Gland<br>Pars Distalis, Adenoma<br>Pars Distalis, Carcinoma             | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 49<br>28<br>1      |          |
| Thyroid Gland<br>C-cell, Adenoma<br>C-cell, Carcinoma<br>Follicular Cell, Adenoma | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | 50<br>11<br>2<br>1 |          |
| <b>GENERAL BODY SYSTEM</b>  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                    |          |
| Peritoneum  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                  |          |
| <b>GENITAL SYSTEM</b>   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                    |          |
| Clitoral Gland<br>Adenoma   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | M                | +                | 48<br>4            |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>100 ppm | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | * TOTALS |
|------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
|                                    | 0704        | 0705   | 0702   | 0707   | 0704   | 0705   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   |          |
| ANIMAL ID                          | 007005      | 007003 | 007009 | 007007 | 007001 | 007006 | 007008 | 007005 | 007009 | 007000 | 007009 | 007006 | 007007 | 007001 | 007001 | 007002 | 007003 | 007003 | 007003 | 007000 | 007001 | 007002 | 007003 | 007004 | 007009   |
| Carcinoma                          |             |        | X      |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        | X      | X      |        |        |        |        | 5        |
| Ovary                              | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |
| Uterus                             | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |
| Polyp Stromal                      |             |        |        |        |        |        |        |        |        |        |        | X      |        |        | X      |        |        |        | X      |        | X      |        |        | X      | 8        |
| Endometrium, Carcinoma             |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |
| Vagina                             |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |
| Polyp                              |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |
| <b>HEMATOPOIETIC SYSTEM</b>        |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |
| Bone Marrow                        | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |
| Lymph Node                         |             |        |        |        |        |        | +      |        |        |        |        |        | +      |        |        |        |        |        |        |        |        |        |        |        | 9        |
| Lymph Node, Bronchial              | M           | M      | M      | +      | +      | M      | M      | M      | M      | M      | +      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | 10       |
| Lymph Node, Mandibular             | M           | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | M      | 4        |
| Lymph Node, Mediastinal            | +           | +      | +      | +      | M      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | M      | +      | +      | M      | +      | M      | +      | 38       |
| Lymph Node, Mesenteric             | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |
| Spleen                             | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |
| Thymus                             | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | M      | +      | +      | +      | 42       |
| <b>INTEGUMENTARY SYSTEM</b>        |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |
| Mammary Gland                      | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |
| Carcinoma                          |             |        | X      |        |        |        |        |        |        |        | X      |        |        | X      |        |        |        |        | X      |        |        |        |        |        | 4        |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically

Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>100 ppm       | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | * TOTALS |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
|  | 0704        | 0705   | 0702   | 0707   | 0704   | 0705   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   |        |          |
| ANIMAL ID                                | 007005      | 007003 | 007009 | 007007 | 007001 | 007006 | 007008 | 007005 | 007009 | 007000 | 007009 | 007006 | 007007 | 007001 | 007001 | 007002 | 007003 | 007003 | 007003 | 007006 | 007004 | 007002 | 007005 | 007005 |          |
| Fibroadenoma                             | X           | X      |        |        |        | X      | X      |        | X      |        | X      | X      |        |        | X      | X      |        | X      |        |        |        | X      | X      |        | 25       |
| Fibroadenoma, Multiple                   |             |        |        | X      | X      |        |        | X      |        | X      |        |        | X      | X      |        | X      |        | X      |        | X      |        |        |        | X      | 14       |
| Skin                                     | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |
| <b>MUSCULOSKELETAL SYSTEM</b>            |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |
| Bone                                     | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |
| <b>NERVOUS SYSTEM</b>                    |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |
| Brain                                    | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |
| Carcinoma, Metastatic, Pituitary Gland   |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        | 1        |
| Oligodendroglioma Malignant              |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |
| <b>RESPIRATORY SYSTEM</b>                |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |
| Larynx                                   | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |
| Lung                                     | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |
| Alveolar/Bronchiolar Carcinoma, Multiple |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      | 1        |
| Nose                                     | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |
| Chondroma                                |             |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |
| Respiratory Epithelium, Adenoma          |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |
| Pleura                                   |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |
| Trachea                                  | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |
| <b>SPECIAL SENSES SYSTEM</b>             |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |
| Eye                                      | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 49       |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically



Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:55  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>100 ppm | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | * TOTALS |  |
|------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--|
|                                    | 0704        | 0705   | 0702   | 0707   | 0704   | 0705   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   | 0701   |          |  |
| ANIMAL ID                          | 007005      | 007003 | 007009 | 007007 | 007001 | 007006 | 007008 | 007005 | 007009 | 007000 | 007009 | 007006 | 007007 | 007001 | 007001 | 007002 | 007003 | 007003 | 007003 | 007003 | 007000 | 007001 | 007002 | 007003 | 007004 | 007004   |  |
| Harderian Gland                    | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |  |
| Lacrimal Gland                     |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| <b>URINARY SYSTEM</b>              |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |  |
| Kidney                             | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |  |
| Urinary Bladder                    | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |  |
| <b>SYSTEMIC LESIONS</b>            |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |  |
| Multiple Organ                     | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |  |
| Histiocytic Sarcoma                |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |
| Leukemia Mononuclear               |             | X      |        | X      |        | X      |        | X      |        | X      | X      |        | X      | X      |        | X      | X      |        | X      | X      |        | X      |        | X      |        | 25       |  |
| Lymphoma Malignant                 |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |

\*\*\* END OF REPORT \*\*\*

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically