

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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

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

**Date Report Requested:** 12/12/2011  
**Time Report Requested:** 09:47:50  
**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

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FISCHER 344 RATS MALE Control	DAY ON TEST																									ANIMAL ID	males (cont...)
	0677	06627	07231	07751	07722	07733	07733	07701	07750	07766	07713	07733	07733	07667	07667	07733	07733	07667	07677	07667	07733	07733	07667	07677	07667		
	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	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	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	0000	0000	0000	
	1234	5678	9012	3456	7890	1234	5678	9012	3456	7890	1234	5678	9012	3456	7890	1234	5678	9012	3456	7890	1234	5678	9012	3456	7890	1234	

### ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Intestine Small, Duodenum Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Intestine Small, Ileum Leukemia Mononuclear Mesothelioma Malignant	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Intestine Small, Jejunum Mesothelioma Malignant	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Liver Hepatocellular Adenoma Leukemia Mononuclear	+	+	+	+	+	X	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
						X			X	X					X											
Mesentery Mesothelioma Malignant				+							+							+	+		+				+	
Pancreas Leukemia Mononuclear	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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FISCHER 344 RATS MALE	DAY ON TEST																									males (cont...)
	0677000000	0662311230	07757777	07757777	07757777	07757777	07757777	07757777	07757777	07757777	07757777	07757777	07757777	07757777	07757777	07757777	07757777	07757777	07757777	07757777	07757777	07757777	07757777	07757777		
Control	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000		
	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000		
	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000		
	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890		
Mesothelioma Malignant																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Tooth																								+		
<b>CARDIOVASCULAR SYSTEM</b>																										
Blood Vessel																									+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Leukemia Mononuclear																										
Pericardium, Osteosarcoma, Metastatic, Bone																								X		
<b>ENDOCRINE SYSTEM</b>																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Adenoma		X																			X					
Leukemia Mononuclear								X																		
Mesothelioma Malignant																										
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Leukemia Mononuclear								X																		
Pheochromocytoma Benign																X										
Pheochromocytoma Malignant													X	X												

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FISCHER 344 RATS MALE Control	DAY ON TEST																									males (cont...)	
	0677	06627	07757	07757	07757	07757	07757	07757	07757	07757	07757	07757	07757	07757	07757	07757	07757	07757	07757	07757	07757	07757	07757	07757			
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		
Islets, Pancreatic Adenoma Carcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Pituitary Gland Leukemia Mononuclear Pars Distalis, Adenoma	X	X	X	X			X	X		X	X	X		X	X	X				X	X	X					
Thyroid Gland C-cell, Adenoma C-cell, Carcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
<b>GENERAL BODY SYSTEM</b>																											
NONE																											
<b>GENITAL SYSTEM</b>																											
Epididymis Mesothelioma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Preputial Gland Adenoma Carcinoma	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Prostate Mesothelioma Malignant	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	A	+	+		

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FISCHER 344 RATS MALE	DAY ON TEST																									males (cont...)		
	0677	0662	0772	0773	0511	0772	0773	0773	0773	0773	0773	0667	0773	0773	0666	0666	0773	0773	0336	0773	0666	0773	0666	0773	0666		0773	0666
Control	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	0000	0000	0000
	1234	5678	9012	3456	7890	1234	5678	9012	3456	7890	1234	5678	9012	3456	7890	1234	5678	9012	3456	7890	1234	5678	9012	3456	7890	1234	5678	9012
Mesothelioma Malignant																												
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mesothelioma Malignant																												
Bilateral, Interstitial Cell, Adenoma			X	X		X		X	X	X	X		X	X					X	X		X						
Interstitial Cell, Adenoma						X					X							X										
<b>HEMATOPOIETIC SYSTEM</b>																												
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear					X										X													
Lymph Node						+				+																		
Pancreatic, Leukemia Mononuclear					X																							
Lymph Node, Bronchial	M	M	M	M	+	M	M	M	M	M	M	M	M	M	M	+	M	+	M	M	M	+	M	M				
Leukemia Mononuclear																										X		
Osteosarcoma, Metastatic, Bone																								X				
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	M	M	M	M
Lymph Node, Mediastinal	M	M	+	+	+	+	+	M	+	+	M	M	+	+	M	M	M	+	+	+	M	M	M	M	M			
Leukemia Mononuclear						X																						
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear					X		X	X							X									X				
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear					X		X	X							X									X				
Mesothelioma Malignant																												

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 Lab: BNW

		DAY ON TEST																				males (cont...)					
FISCHER 344 RATS MALE	Control	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0			
		6	6	7	7	5	7	7	7	7	7	6	7	7	6	6	7	7	3	7	7		6	7	6	6	
ANIMAL ID		7	6	2	3	1	1	2	3	3	0	3	8	1	3	6	2	3	3	6	3	2	7	3	7	6	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	0	0	0	0
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

Thymus + M + + + + + + + + + + M M + M + + + + + + + +  
 Leukemia Mononuclear

**INTEGUMENTARY SYSTEM**

Mammary Gland + + + + M + + + + + M + + + M M M M + + M M + +  
 Fibroadenoma  
 Skin +  
 Basal Cell Adenoma  
 Basal Cell Carcinoma X  
 Keratoacanthoma X  
 Squamous Cell Papilloma X  
 Trichoepithelioma X  
 Subcutaneous Tissue, Fibroma X

**MUSCULOSKELETAL SYSTEM**

Bone +  
 Osteoma  
 Osteosarcoma X  
 Skeletal Muscle +  
 Lipoma  
 Mesothelioma Malignant  
 Osteosarcoma, Metastatic, Bone X

**NERVOUS SYSTEM**

Brain +

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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	
<b>FISCHER 344 RATS MALE</b>		6	6	7	7	5	7	7	7	7	7	6	7	7	6	6	7	7	3	7	7	6	7	6	6		males (cont...)
<b>Control</b>		7	6	2	3	1	1	2	3	3	0	3	8	1	3	6	2	3	3	6	3	2	7	3	7	5	
	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	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	
Leukemia Mononuclear		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	
Peripheral Nerve			+																							+	
Spinal Cord				+																						+	
<b>RESPIRATORY SYSTEM</b>																											
Larynx		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lung		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Alveolar/Bronchiolar Adenoma																	X					X					
Leukemia Mononuclear						X											X										
Osteosarcoma, Metastatic, Bone																						X					
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear																							A	+	+	+	
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>SPECIAL SENSES SYSTEM</b>																											
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>URINARY SYSTEM</b>																											
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear						X																					
Mesenchymal Tumor Malignant																	X										

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		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAY ON TEST		6	6	7	7	5	7	7	7	7	7	6	7	7	6	6	7	7	3	7	7	6	7	6
FISCHER 344 RATS MALE		7	6	2	3	1	1	2	3	3	0	3	8	1	3	6	2	3	3	6	3	2	7	6
Control		7	1	9	0	4	2	9	0	1	5	0	6	9	0	0	0	0	7	1	9	9	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	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	

males (cont...)

Mesothelioma Malignant

Urinary Bladder

Mesothelioma Malignant

+ +

SYSTEMIC LESIONS

Multiple Organ

Leukemia Mononuclear

Mesothelioma Malignant

+ X X X X X

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| FISCHER 344 RATS MALE | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |
|-----------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
|                       | 04          | 05 | 07 | 06 | 07 | 07 | 05 | 07 | 07 | 05 | 06 | 06 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | 07 | 06 | 07 | 05 | 05 |          |
| <b>Control</b>        | 09          | 05 | 03 | 03 | 02 | 03 | 09 | 02 | 02 | 06 | 09 | 01 | 03 | 03 | 02 | 02 | 04 | 05 | 03 | 01 | 07 | 02 | 02 | 09 | 06       |
| ANIMAL ID             | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       |
|                       | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       |
|                       | 22          | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 45 | 56       |
|                       | 67          | 78 | 89 | 90 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 00       |

**ALIMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Leukemia Mononuclear      |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | I | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Leukemia Mononuclear      |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Leukemia Mononuclear      |   |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Mesothelioma Malignant    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Mesothelioma Malignant    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Leukemia Mononuclear      |   | X |   |   | X | X | X | X |   | X | X |   |   |   | X |   |   | X |   | X | X | X |   |   | 16 |
| Mesentery                 |   |   | + |   | + | + |   |   |   | + |   | + |   |   | + | + |   | + |   | + |   |   | + |   | 16 |
| Mesothelioma Malignant    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear      |   | X |   |   | X | X | X |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   |   | 5  |

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>Control            | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |    |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|
|   | 04          | 05 | 07 | 06 | 07 | 07 | 05 | 07 | 07 | 05 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | 07 | 06 | 07 | 07 |          | 05 |
| ANIMAL ID                                   | 09          | 05 | 03 | 03 | 02 | 03 | 09 | 02 | 02 | 06 | 09 | 01 | 03 | 03 | 02 | 02 | 04 | 05 | 04 | 00 | 07 | 06 | 07 | 07 | 05       |    |
|   | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       |    |
|   | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       |    |
|   | 02          | 02 | 02 | 02 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 05       |    |
|   | 06          | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00       |    |
| Mesothelioma Malignant                      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | X  | 1  |          |    |
| Salivary Glands                             | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50       |    |
| Stomach, Forestomach                        | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50       |    |
| Mesothelioma Malignant                      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | X  | 1  |          |    |
| Stomach, Glandular                          | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | A  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 49       |    |
| Tooth                                       |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        |    |
| <b>CARDIOVASCULAR SYSTEM</b>                |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |
| Blood Vessel                                |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        |    |
| Heart                                       | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50       |    |
| Leukemia Mononuclear                        |             | X  |    |    |    |    | X  |    |    |    |    |    |    |    |    |    |    |    |    |    | X  |    |    |    | 3        |    |
| Pericardium, Osteosarcoma, Metastatic, Bone |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        |    |
| <b>ENDOCRINE SYSTEM</b>                     |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |
| Adrenal Cortex                              | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | A  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 49       |    |
| Adenoma                                     |             |    |    |    |    |    | X  |    |    |    |    | X  |    |    |    |    |    |    |    |    |    |    |    |    | 4        |    |
| Leukemia Mononuclear                        |             | X  |    |    | X  |    | X  |    |    |    |    |    |    | X  |    |    |    | X  |    | X  | X  |    |    |    | 8        |    |
| Mesothelioma Malignant                      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | X  |    | 1        |    |
| Adrenal Medulla                             | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | A  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 49       |    |
| Leukemia Mononuclear                        |             | X  |    |    | X  |    |    |    |    |    |    |    |    | X  |    |    |    | X  |    | X  | X  |    |    |    | 7        |    |
| Pheochromocytoma Benign                     |             |    |    |    |    |    |    |    |    |    |    |    |    |    | X  |    |    | X  |    | X  |    |    | X  |    | 5        |    |
| Pheochromocytoma Malignant                  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>Control | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |
|----------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
|                                  | 04          | 05 | 07 | 06 | 07 | 07 | 05 | 07 | 07 | 05 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | 06 | 07 | 07 | 05 |          |
| ANIMAL ID                        | 09          | 05 | 03 | 03 | 02 | 03 | 09 | 02 | 02 | 06 | 09 | 01 | 03 | 03 | 02 | 02 | 04 | 05 | 03 | 01 | 07 | 02 | 02 | 06 |          |
|                                  | 2           | 1  | 0  | 5  | 9  | 0  | 1  | 9  | 9  | 4  | 8  | 4  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |          |
| Islets, Pancreatic Adenoma       | 0           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 50 |          |
| Islets, Pancreatic Carcinoma     | 0           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2  |          |
| Parathyroid Gland                | 0           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2  |          |
| Pituitary Gland                  | 0           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 50 |          |
| Leukemia Mononuclear             | 0           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4  |          |
| Pars Distalis, Adenoma           | 0           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 34 |          |
| Thyroid Gland                    | 0           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 50 |          |
| C-cell, Adenoma                  | 0           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4  |          |
| C-cell, Carcinoma                | 0           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |          |
| <b>GENERAL BODY SYSTEM</b>       |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |
| NONE                             |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |
| <b>GENITAL SYSTEM</b>            |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |
| Epididymis                       | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50 |          |
| Mesothelioma Malignant           |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | X  | 1  |          |
| Preputial Gland                  | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50 |          |
| Adenoma                          |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | X  | 2  |          |
| Carcinoma                        | X           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2  |          |
| Prostate                         | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50 |          |
| Mesothelioma Malignant           |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | X  | 1  |          |
| Seminal Vesicle                  | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 48 |          |

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE                 | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |    |   |
|---------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|---|
|                                       | 04          | 05 | 07 | 06 | 07 | 07 | 05 | 07 | 07 | 05 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | 06 | 07 | 07 | 05 |          |    |   |
| Control                               | 09          | 05 | 03 | 03 | 02 | 03 | 09 | 02 | 02 | 06 | 09 | 01 | 03 | 03 | 02 | 02 | 02 | 04 | 05 | 03 | 01 | 07 | 02 | 02 | 06       |    |   |
|                                       | 2           | 1  | 0  | 5  | 9  | 0  | 1  | 9  | 9  | 4  | 8  | 4  | 0  | 0  | 9  | 9  | 9  | 5  | 4  | 0  | 7  | 0  | 9  | 2  | 2        |    |   |
|                                       | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       |    |   |
|                                       | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       |    |   |
|                                       | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       |    |   |
|                                       | 22          | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 55       |    |   |
|                                       | 66          | 77 | 88 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00       |    |   |
| Mesothelioma Malignant                |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | X        | 1  |   |
| Testes                                | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | 50 |   |
| Mesothelioma Malignant                |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          | X  | 1 |
| Bilateral, Interstitial Cell, Adenoma |             |    | X  |    |    |    | X  |    | X  |    | X  |    |    |    |    | X  |    |    |    |    |    | X  | X  |    |          | 20 |   |
| Interstitial Cell, Adenoma            |             | X  |    |    |    | X  |    |    | X  |    |    | X  | X  | X  |    |    |    | X  | X  |    |    |    |    | X  |          | 12 |   |
| <b>HEMATOPOIETIC SYSTEM</b>           |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |   |
| Bone Marrow                           | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | A  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | 49 |   |
| Leukemia Mononuclear                  |             | X  |    |    | X  |    | X  |    |    | X  | X  |    |    |    |    |    |    |    |    |    | X  | X  |    |    |          | 9  |   |
| Lymph Node                            |             |    |    |    |    |    | +  |    |    | +  | +  |    |    |    |    |    |    |    |    | +  |    |    |    |    |          | 6  |   |
| Pancreatic, Leukemia Mononuclear      |             |    |    |    |    |    | X  |    |    | X  | X  |    |    |    |    |    |    |    |    | X  |    |    |    |    |          | 5  |   |
| 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  |   |
| Leukemia Mononuclear                  |             | X  |    |    | X  |    |    |    |    | X  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          | 4  |   |
| 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  | +  | +  | +  | M  | +  | +  | +  | +  | +  | +  | +        | 28 |   |
| Leukemia Mononuclear                  |             |    |    |    | X  |    | X  |    |    | X  |    |    |    |    | X  |    |    |    |    | X  | X  | X  |    |    |          | 8  |   |
| Lymph Node, Mesenteric                | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | 50 |   |
| Leukemia Mononuclear                  |             | X  |    |    | X  | X  | X  | X  |    | X  | X  |    |    |    | X  |    |    |    | X  | X  | X  | X  |    |    |          | 16 |   |
| Spleen                                | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | 50 |   |
| Leukemia Mononuclear                  |             | X  |    |    | X  | X  | X  | X  |    | X  | X  |    |    |    | X  |    |    |    | X  | X  | X  | X  |    |    |          | 17 |   |
| 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  
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 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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<br>Control | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |    |    |    |
|----------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|
|                                  | 04          | 05 | 07 | 06 | 07 | 07 | 05 | 07 | 07 | 05 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 06 | 06 | 07 |          | 06 | 07 | 07 |
| ANIMAL ID                        | 09          | 05 | 03 | 03 | 02 | 03 | 09 | 02 | 02 | 06 | 09 | 01 | 03 | 03 | 02 | 02 | 04 | 05 | 03 | 01 | 07       | 02 | 02 | 06 |
|                                  | 2           | 1  | 0  | 5  | 9  | 0  | 1  | 9  | 9  | 4  | 8  | 4  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0        | 0  | 0  | 0  |
| Thymus                           | +           | +  | M  | +  | +  | +  | +  | +  | I  | +  | +  | +  | M  | +  | +  | +  | +  | +  | +  | M  | +        | +  | +  | 42 |
| Leukemia Mononuclear             |             |    |    | X  |    | X  |    |    |    | X  |    |    |    | X  |    |    |    |    |    | X  |          |    |    | 5  |
| <b>INTEGUMENTARY SYSTEM</b>      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |
| Mammary Gland                    | +           | M  | M  | +  | +  | +  | +  | +  | M  | +  | M  | M  | +  | +  | +  | +  | +  | +  | M  | +  | +        | +  | +  | 36 |
| Fibroadenoma                     |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | X  |    |    |    |          |    |    | 1  |
| Skin                             | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | +  | +  | 50 |
| Basal Cell Adenoma               |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          | X  |    | 1  |
| Basal Cell Carcinoma             |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    | 1  |
| Keratoacanthoma                  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | X  |    |    |          |    |    | 3  |
| Squamous Cell Papilloma          |             |    |    |    | X  |    |    |    |    |    |    |    |    | X  |    |    |    |    |    |    |          |    |    | 3  |
| Trichoepithelioma                |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    | 1  |
| Subcutaneous Tissue, Fibroma     |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    | 1  |
| <b>MUSCULOSKELETAL SYSTEM</b>    |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |
| Bone                             | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | +  | +  | 50 |
| Osteoma                          |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    | 1  |
| Osteosarcoma                     |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    | 1  |
| Skeletal Muscle                  |             |    |    |    |    |    |    |    |    | +  |    |    |    |    |    |    |    |    |    |    |          |    | +  | 3  |
| Lipoma                           |             |    |    |    |    |    |    |    |    | X  |    |    |    |    |    |    |    |    |    |    |          |    |    | 1  |
| Mesothelioma Malignant           |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          | X  |    | 1  |
| Osteosarcoma, Metastatic, Bone   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    | 1  |
| <b>NERVOUS SYSTEM</b>            |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |
| Brain                            | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | +  | +  | 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>Control | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |
|----------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
|                                  | 04          | 05 | 07 | 06 | 07 | 07 | 05 | 07 | 07 | 05 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | 06 | 07 | 07 | 05 |          |
| ANIMAL ID                        | 09          | 05 | 03 | 03 | 02 | 03 | 09 | 02 | 02 | 06 | 09 | 01 | 03 | 03 | 02 | 02 | 02 | 04 | 05 | 03 | 01 | 07 | 02 | 02 | 06       |
|                                  | 2           | 1  | 0  | 5  | 9  | 0  | 1  | 9  | 9  | 4  | 8  | 4  | 0  | 0  | 9  | 9  | 9  | 5  | 4  | 0  | 7  | 0  | 9  | 9  | 2        |
|                                  | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       |
|                                  | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       |
|                                  | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       |
|                                  | 22          | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 55       |
|                                  | 66          | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00       |
| Leukemia Mononuclear             | X           |    |    |    |    |    |    |    |    |    |    |    | X  |    |    |    |    |    |    |    |    |    |    |    | 2        |
| Peripheral Nerve                 |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2        |
| Spinal Cord                      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2        |
| <b>RESPIRATORY SYSTEM</b>        |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |
| Larynx                           | +           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 50       |
| Lung                             | +           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 50       |
| Alveolar/Bronchiolar Adenoma     |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 3        |
| Leukemia Mononuclear             | X           |    |    |    |    |    |    |    |    |    |    |    | X  |    |    |    |    |    |    |    |    |    |    |    | 14       |
| Osteosarcoma, Metastatic, Bone   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        |
| Nose                             | +           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 49       |
| Leukemia Mononuclear             |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        |
| Trachea                          | +           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 50       |
| <b>SPECIAL SENSES SYSTEM</b>     |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |
| Eye                              | +           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 48       |
| Harderian Gland                  | +           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 50       |
| <b>URINARY SYSTEM</b>            |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |
| Kidney                           | +           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 50       |
| Leukemia Mononuclear             | X           |    |    |    |    |    |    |    |    |    |    |    | X  |    |    |    |    |    |    |    |    |    |    |    | 11       |
| Mesenchymal Tumor Malignant      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        |

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 + .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br><b>Control</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 | 0         | * TOTALS |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|----------|
|   | 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         |          |
|   | 4           | 5 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 7 | 5 | 5 | 5 |           |          |
|   | 9           | 5 | 3 | 3 | 2 | 3 | 9 | 2 | 2 | 6 | 9 | 1 | 3 | 3 | 2 | 2 | 2 | 4 | 5 | 3 | 1 | 7 | 2 | 2 | 6 | 6 | 6 |           |          |
|   | 2           | 1 | 0 | 5 | 9 | 0 | 1 | 9 | 9 | 4 | 8 | 4 | 0 | 0 | 9 | 9 | 9 | 5 | 4 | 0 | 7 | 0 | 9 | 9 | 2 | 2 | 2 |           |          |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |           |          |
|   | 0           | 0 | 0 | 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 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |           |          |
|   | 6           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 |           |          |
| Mesothelioma Malignant                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | <b>1</b>  |          |
| Urinary Bladder                         |             |   |   |   |   |   |   |   |   |   |   | A |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>49</b> |          |
| Mesothelioma Malignant                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | <b>1</b>  |          |
| <b>SYSTEMIC LESIONS</b>                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |          |
| Multiple Organ                          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>50</b> |          |
| Leukemia Mononuclear                    |             |   | X |   | X | X | X | X |   | X | X |   |   |   |   | X |   |   | X |   | X | X | X |   |   |   |   | <b>17</b> |          |
| Mesothelioma 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  
 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

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

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

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                              | + | + | + | + | A | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                              | + | + | + | + | A | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + |
| Intestine Large, Rectum                             | + | + | + | + | A | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum                           | + | + | + | + | A | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum<br>Leukemia Mononuclear      | + | + | + | + | A | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | X |
| Intestine Small, Jejunum<br>Sarcoma Stromal         | + | + | + | + | A | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | A | + |
| Liver<br>Carcinoma, Metastatic, Urinary Bladder     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Histiocytic Sarcoma                                 |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear                                |   | X | X |   | X |   |   |   |   |   |   |   |   | X |   | X | X |   |   |   | X |   | X | X |
| Mesentery<br>Carcinoma, Metastatic, Urinary Bladder |   |   |   |   |   | + | + |   |   |   |   |   |   |   |   |   |   | + | + |   | + |   | + | + |
| Mesothelioma Malignant                              |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |
| Pancreas<br>Carcinoma, Metastatic, Urinary Bladder  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear                                |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:50

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

Lab: BNW

| FISCHER 344 RATS MALE               | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | males<br>(cont...) |      |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|
|                                     | 0631        | 0661 | 0671 | 0681 | 0691 | 0701 | 0711 | 0721 | 0731 | 0741 | 0751 | 0761 | 0771 | 0781 | 0791 | 0801 | 0811 | 0821 | 0831 | 0841 | 0851 | 0861 | 0871 | 0881 | 0891 |                    |      |
| 25 ppm                              | ANIMAL ID   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | males<br>(cont...) |      |
|                                     | 0020        | 0030 | 0040 | 0050 | 0060 | 0070 | 0080 | 0090 | 0100 | 0110 | 0120 | 0130 | 0140 | 0150 | 0160 | 0170 | 0180 | 0190 | 0200 | 0210 | 0220 | 0230 | 0240 | 0250 | 0260 |                    | 0270 |
| Mesothelioma Malignant              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      | X                  |      |
| Salivary Glands                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                  |      |
| Stomach, Forestomach                | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                  |      |
| Mesothelioma Malignant              |             |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |                    |      |
| Stomach, Glandular                  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                  |      |
| Mesothelioma Malignant              |             |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      | X                  |      |
| Tongue                              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |      |
| Squamous Cell Papilloma             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | +    |      |      |      |      |      | X                  |      |
| <b>CARDIOVASCULAR SYSTEM</b>        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |      |
| Heart                               | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                  |      |
| Histiocytic Sarcoma                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |                    |      |
| Leukemia Mononuclear                |             |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |                    |      |
| Pericardium, Mesothelioma Malignant |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |                    |      |
| <b>ENDOCRINE SYSTEM</b>             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |      |
| Adrenal Cortex                      | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                  |      |
| Adenoma                             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |      |
| Leukemia Mononuclear                |             |      | X    |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      | X                  |      |
| Adrenal Medulla                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                  |      |
| Leukemia Mononuclear                |             |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      | X                  |      |
| Pheochromocytoma Benign             |             |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      | X    | X                  |      |
| Pheochromocytoma Malignant          |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |      |
| Bilateral, Pheochromocytoma Benign  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
Vinylidene chloride  
CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
Time Report Requested: 09:47:50  
First Dose M/F: 06/06/05 / 06/06/05  
Lab: BNW

|  | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | males<br>(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| <b>FISCHER 344 RATS MALE</b>   | 0631        | 0661 | 0671 | 0681 | 0691 | 0701 | 0711 | 0721 | 0731 | 0741 | 0751 | 0761 | 0771 | 0781 | 0791 | 0801 | 0811 | 0821 | 0831 | 0841 | 0851 | 0861 | 0871 |                    |
| <b>25 ppm</b>  | 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 |                    |
|  | 2200        | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 | 2200 |                    |
|  | 1100        | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |                    |
| Islets, Pancreatic Adenoma Carcinoma                                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                    |
|  |             |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      | X    |      | X    |      |      |      |                    |
| Parathyroid Gland  | +           | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                    |
| Pituitary Gland  | +           | +    | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                    |
| Leukemia Mononuclear Pars Distalis, Adenoma                            | X           |      | X    |      | X    |      |      | X    |      | X    | X    |      | X    | X    |      | X    | X    |      | X    | X    |      | X    | X    |                    |
| Thyroid Gland  | +           | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                    |
| C-cell, Adenoma  |             |      | X    |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      | X    |                    |
| C-cell, Carcinoma  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |                    |
| <b>GENERAL BODY SYSTEM</b>   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Peritoneum Mesothelioma Malignant                                      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| <b>GENITAL SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Epididymis Mesothelioma Malignant                                      | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                    |
|  |             |      |      |      | X    |      |      |      | X    |      |      |      |      |      |      | X    | X    |      | X    |      |      | X    | X    |                    |
| Preputial Gland Carcinoma  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | I    | +    | +    | +    | +    | +    | +    | +    |                    |
| Prostate Carcinoma, Metastatic, Urinary Bladder Mesothelioma Malignant | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                    |
|  |             |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |                    |

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
Vinylidene chloride  
CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
Time Report Requested: 09:47:50  
First Dose M/F: 06/06/05 / 06/06/05  
Lab: BNW

| FISCHER 344 RATS MALE<br>25 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 |   |   |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |             | 6 | 6 | 6 | 7 | 6 | 5 | 3 | 7 | 7 | 7 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 7 |   |   |
|  |             | 3 | 1 | 1 | 2 | 3 | 4 | 5 | 2 | 2 | 3 | 1 | 6 | 4 | 3 | 2 | 3 | 3 | 1 | 3 | 9 | 2 | 2 | 6 | 5 | 3 |   |   |
|  | ANIMAL ID   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |   |   |
| Seminal Vesicle                        |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |
| Carcinoma, Metastatic, Urinary Bladder |             |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesothelioma Malignant                 |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   |
| Testes                                 |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Mesothelioma Malignant                 |             |   |   |   |   | X |   |   |   |   |   |   |   | X |   | X |   |   | X | X |   | X |   |   | X |   |   |   |
| Bilateral, Interstitial Cell, Adenoma  |             |   |   | X |   | X |   | X | X | X |   |   |   | X |   |   |   |   | X | X | X |   |   | X |   |   |   |   |
| Interstitial Cell, Adenoma             |             | X | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   |   |   |   |   |   |   | X |   |
| <b>HEMATOPOIETIC SYSTEM</b>            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bone Marrow                            |             | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Histiocytic Sarcoma                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Leukemia Mononuclear                   |             |   | X | X |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | X |   | X |   |   |
| Lymph Node                             |             |   | + | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |
| Pancreatic, Leukemia Mononuclear       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Renal, Leukemia Mononuclear            |             |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Bronchial                  |             | M | + | M | + | + | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | + | M | + | + | M | M |   |
| Carcinoma, Metastatic, Thyroid Gland   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Histiocytic Sarcoma                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Leukemia Mononuclear                   |             |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |
| 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 | M | M | M |
| Leukemia Mononuclear                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mediastinal                |             | M | M | + | M | M | M | + | + | + | M | + | M | + | + | M | M | M | M | M | + | + | M | M | M | M | + |   |
| Leukemia Mononuclear                   |             |   |   |   | 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 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...) |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|                                 | 0631        | 0661 | 0671 | 0681 | 0691 | 0701 | 0711 | 0721 | 0731 | 0741 | 0751 | 0761 | 0771 | 0781 | 0791 | 0801 | 0811 | 0821 | 0831 | 0841 | 0851 | 0861 | 0871 | 0881 | 0891 |           |                    |
|                                 | 0           | 0    | 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    | 7    | 6    | 5    | 3    | 7    | 7    | 7    | 6    | 6    | 5    | 7    | 7    | 7    | 7    | 7    | 7    | 5    | 7    | 7    | 5    | 6    | 6    | 7         |                    |
|                                 | 3           | 1    | 1    | 2    | 3    | 4    | 5    | 2    | 2    | 3    | 1    | 6    | 4    | 3    | 2    | 3    | 3    | 1    | 3    | 9    | 2    | 2    | 6    | 5    | 3    | 0         |                    |
|                                 | 1           | 9    | 1    | 9    | 0    | 3    | 5    | 9    | 9    | 0    | 9    | 8    | 8    | 0    | 9    | 0    | 1    | 1    | 0    | 9    | 9    | 9    | 3    | 6    | 0    | 0         |                    |
|                                 | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         |                    |
|                                 | 0           | 0    | 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    | 2    | 2         |                    |
|                                 | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 2    | 2    | 2    | 2    | 2    | 2    | 2         |                    |
|                                 | 1           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 0         |                    |

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Leukemia Mononuclear   |   | X | X |   | X |   |   |   |   |   |   |   |   | X |   | X | X |   |   |   |   | X |   | X |   | X |
| Spleen                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Leukemia Mononuclear   |   | X | X |   | X |   |   |   |   |   |   |   |   | X |   | X | X |   |   |   |   | X |   | X |   | X |
| Mesothelioma Malignant |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | X |   |
| Thymus                 | M | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear   |   |   |   |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   | X |   |   |

**INTEGUMENTARY SYSTEM**

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland                | M | M | M | M | M | M | + | + | + | M | + | + | M | + | + | M | + | + | + | + | + | + | M | + | + |   |
| Fibroadenoma                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Skin                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Keratoacanthoma              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Squamous Cell Papilloma      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Subcutaneous Tissue, Fibroma |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Sarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Urinary Bladder |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesothelioma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

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

|                       |           | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | males<br>(cont...) |       |      |      |      |
|-----------------------|-----------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|------|------|------|
| FISCHER 344 RATS MALE |           | 06311       | 06611 | 06712 | 06813 | 06914 | 07015 | 07116 | 07217 | 07318 | 07419 | 07520 | 07621 | 07722 | 07823 | 07924 | 08025 | 08126 | 08227 | 08328 | 08429 |                    | 08530 |      |      |      |
| 25 ppm                | ANIMAL ID | 0001        | 0002  | 0003  | 0004  | 0005  | 0006  | 0007  | 0008  | 0009  | 0010  | 0011  | 0012  | 0013  | 0014  | 0015  | 0016  | 0017  | 0018  | 0019  | 0020  | 0021               | 0022  | 0023 | 0024 | 0025 |

**NERVOUS SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Histiocytic Sarcoma  |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**RESPIRATORY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx                                 | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Thyroid Gland   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Lung                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolar/Bronchiolar Carcinoma         |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Carcinoma, Metastatic, Thyroid Gland   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Carcinoma, Metastatic, Urinary Bladder |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Histiocytic Sarcoma                    |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | X |   |
| Leukemia Mononuclear                   |   | X | X |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | X |   | X |   |   |   |
| Mesothelioma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Squamous Cell Carcinoma                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear                   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pleura                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesothelioma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Trachea                                | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 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...) |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|-----------|--------------------|
|                                    | 0631        | 0661 | 0671 | 0676 | 0675 | 0673 | 0677 | 0677 | 0677 | 0666 | 0666 | 0655 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0655 | 0677 | 0677 | 0655 | 0666 | 0677 |                          |           |                    |
|                                    | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 000000000000000000000000 |           |                    |
|                                    | 1           | 9    | 1    | 9    | 0    | 3    | 5    | 9    | 9    | 0    | 9    | 8    | 8    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 000000000000000000000000 |           |                    |
| Eye                                | +           | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                          |           |                    |
| Harderian Gland                    | +           | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                          |           |                    |
| Zymbal's Gland<br>Carcinoma        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                          |           |                    |
| <b>URINARY SYSTEM</b>              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                          |           |                    |
| Kidney                             | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                          |           |                    |
| Histiocytic Sarcoma                |             |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |                          |           |                    |
| Leukemia Mononuclear               |             | X    | X    |      | X    |      |      |      |      |      |      |      |      | X    |      | X    |      |      |      |      |      | X    |      | X    |                          |           |                    |
| Renal Tubule, Carcinoma            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |                          |           |                    |
| Urinary Bladder                    | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                          |           |                    |
| Mesothelioma Malignant             |             |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |                          |           |                    |
| Transitional Epithelium, Carcinoma |             |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |                          |           |                    |
| <b>SYSTEMIC LESIONS</b>            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                          |           |                    |
| Multiple Organ                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                          |           |                    |
| Histiocytic Sarcoma                |             |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      | X    |                          |           |                    |
| Leukemia Mononuclear               |             | X    | X    |      | X    |      |      |      |      |      |      |      |      | X    |      | X    | X    |      |      |      | X    |      | X    | X    |                          |           |                    |
| Mesothelioma Malignant             |             |      |      |      |      | 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | * TOTALS |
|-----------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
|                       | 0729        | 0731   | 0732   | 0739   | 0779   | 0779   | 0779   | 0779   | 0799   | 0466   | 0535   | 0733   | 0739   | 0676   | 0733   | 0669   | 0771   | 0494   | 0663   | 0772   | 0566   | 0772   | 0773   |          |
| 25 ppm                | 002226      | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222 | 000222   |
|                       | 7           | 8      | 9      | 0      | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 0      | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 0        |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |         |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------|
| Esophagus                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | 49 |         |
| Intestine Large, Cecum                         | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | A | + | +  | 44      |
| Intestine Large, Colon                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 46      |
| Intestine Large, Rectum                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 47      |
| Intestine Small, Duodenum                      | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | +  | 45      |
| Intestine Small, Ileum<br>Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | +  | 45<br>1 |
| Intestine Small, Jejunum<br>Sarcoma Stromal    | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | A | + | +  | 43<br>1 |
| Liver  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50      |
| Carcinoma, Metastatic, Urinary Bladder         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1       |
| Hepatocellular Adenoma                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1       |
| Histiocytic Sarcoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1       |
| Leukemia Mononuclear                           |   | X |   |   |   |   | X | X |   |   |   |   |   |   |   | X | X |   |   |   |   | X | X | X  | 17      |
| Mesentery                                      |   | + | + |   |   |   |   |   | + | + | + | + |   |   |   | + |   |   |   |   |   |   | + |    | 15      |
| Carcinoma, Metastatic, Urinary Bladder         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1       |
| Mesothelioma Malignant                         |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 4       |
| Pancreas                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50      |
| Carcinoma, Metastatic, Urinary Bladder         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1       |
| Leukemia Mononuclear                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |    | 3       |

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>25 ppm     | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | * TOTALS |   |    |   |
|-------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|---|----|---|
|                                     | 0729        | 0731   | 0731   | 0729   | 0729   | 0729   | 0729   | 0729   | 0729   | 0729   | 0729   | 0729   | 0729   | 0729   | 0729   | 0729   | 0729   | 0729   | 0729   | 0729   | 0729   | 0729   | 0729   | 0729   |          |   |    |   |
| ANIMAL ID                           | 002226      | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 |          |   |    |   |
| Mesothelioma Malignant              |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X        | 3 |    |   |
| Salivary Glands                     | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | + | 50 |   |
| Stomach, Forestomach                | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | + | 50 |   |
| Mesothelioma Malignant              |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          | X | 3  |   |
| Stomach, Glandular                  | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | + | 50 |   |
| Mesothelioma Malignant              |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          | X | 4  |   |
| Tongue                              |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |   | 1  |   |
| Squamous Cell Papilloma             |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |   | 1  |   |
| <b>CARDIOVASCULAR SYSTEM</b>        |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |   |    |   |
| Heart                               | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | + | 50 |   |
| Histiocytic Sarcoma                 |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |   | 1  |   |
| Leukemia Mononuclear                |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          | X | X  | 4 |
| Pericardium, Mesothelioma Malignant |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |   | 1  |   |
| <b>ENDOCRINE SYSTEM</b>             |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |   |    |   |
| Adrenal Cortex                      | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | + | 50 |   |
| Adenoma                             | X           |        |        | X      |        |        |        | X      | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |   | 4  |   |
| Leukemia Mononuclear                |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          | X | X  | 7 |
| Adrenal Medulla                     | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | + | 50 |   |
| Leukemia Mononuclear                |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          | X | X  | 6 |
| Pheochromocytoma Benign             |             |        |        |        |        |        |        |        | X      | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |   | X  | 9 |
| Pheochromocytoma Malignant          |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          | X | 1  |   |
| Bilateral, Pheochromocytoma Benign  |             |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |   | 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>25 ppm        | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |    |    |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|----|
|  | 0729        | 0731  | 0731  | 0732  | 0732  | 0732  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  | 0733  |          |    |    |
| ANIMAL ID                              | 00226       | 00227 | 00228 | 00229 | 00230 | 00231 | 00232 | 00233 | 00234 | 00235 | 00236 | 00237 | 00238 | 00239 | 00240 | 00241 | 00242 | 00243 | 00244 | 00245 | 00246 | 00247 | 00248 | 00249 | 00250    |    |    |
| Islets, Pancreatic Adenoma             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50 |    |
| Islets, Pancreatic Carcinoma           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X        | 2  |    |
| Parathyroid Gland                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 49 |    |
| Pituitary Gland                        | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 49 |    |
| Leukemia Mononuclear                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X        | 2  |    |
| Pars Distalis, Adenoma                 |             |       | X     | X     |       | X     | X     | X     |       | X     |       | X     | X     |       |       |       |       |       | X     | X     | X     |       |       |       | X        | 28 |    |
| Thyroid Gland                          | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 49 |    |
| C-cell, Adenoma                        |             |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       | X     |       |       |       |       |       |          | 5  |    |
| C-cell, Carcinoma                      |             |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 3  |    |
| <b>GENERAL BODY SYSTEM</b>             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    |    |
| Peritoneum                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    | 2  |
| Mesothelioma Malignant                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | X  | 1  |
| <b>GENITAL SYSTEM</b>                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    |    |
| Epididymis                             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +  | 50 |
| Mesothelioma Malignant                 | X           |       |       |       |       |       |       |       |       |       | X     | X     |       |       |       |       |       |       |       |       |       |       |       |       |          |    | 10 |
| Preputial Gland                        | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +  | 49 |
| Carcinoma                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | X  | 1  |
| Prostate                               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +  | 50 |
| Carcinoma, Metastatic, Urinary Bladder |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    | 1  |
| Mesothelioma Malignant                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | X  | 3  |

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>25 ppm        | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |    | * TOTALS |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----------|
|  | 0729        | 0731   | 0739   | 0722   | 0729   | 0779   | 0779   | 0779   | 0779   | 0746   | 0755   | 0772   | 0777   | 0663   | 0673   | 0666   | 0677   | 0644   | 0666   | 0677   | 0677   | 0655   | 0677   |    |          |
| ANIMAL ID                              | 002226      | 000022 | 000022 | 000022 | 000033 | 000033 | 000033 | 000033 | 000033 | 000033 | 000033 | 000033 | 000033 | 000044 | 000044 | 000044 | 000044 | 000044 | 000044 | 000044 | 000044 | 000044 | 000044 |    |          |
| Seminal Vesicle                        | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50 |          |
| Carcinoma, Metastatic, Urinary Bladder |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1  |          |
| Mesothelioma Malignant                 |             |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        | 3  |          |
| Testes                                 | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50 |          |
| Mesothelioma Malignant                 | X           |        |        |        |        |        |        |        |        | X      | X      |        |        |        |        |        |        |        |        |        |        |        |        | 10 |          |
| Bilateral, Interstitial Cell, Adenoma  | X           | X      | X      | X      | X      |        |        |        |        | X      |        |        |        | X      |        | X      |        |        |        | X      | X      | X      | X      | 24 |          |
| Interstitial Cell, Adenoma             |             |        |        |        |        |        | X      | X      |        |        | X      |        | X      |        | X      |        | X      |        |        |        |        |        |        | 11 |          |
| <b>HEMATOPOIETIC SYSTEM</b>            |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |    |          |
| Bone Marrow                            | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 49 |          |
| Histiocytic Sarcoma                    |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1  |          |
| Leukemia Mononuclear                   |             | X      |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        | X      | X      | X      | 11 |          |
| Lymph Node                             |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | +      |        | 4  |          |
| Pancreatic, Leukemia Mononuclear       |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1  |          |
| Renal, Leukemia Mononuclear            |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        | 3  |          |
| 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  |          |
| Carcinoma, Metastatic, Thyroid Gland   |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1  |          |
| Histiocytic Sarcoma                    |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1  |          |
| Leukemia Mononuclear                   |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      |        | 5  |          |
| 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  |          |
| Leukemia Mononuclear                   |             |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1  |          |
| Lymph Node, Mediastinal                | M           | +      | M      | +      | M      | +      | M      | +      | M      | M      | +      | M      | M      | M      | +      | M      | M      | M      | +      | +      | +      | +      | +      | 21 |          |
| Leukemia Mononuclear                   |             |        |        |        |        |        | X      |        |        |        |        |        |        |        | X      |        |        |        |        |        | X      |        |        | 6  |          |

\* .. 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>25 ppm                        | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | * TOTALS |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
|  | 0729        | 0731   | 0739   | 0772   | 0779   | 0779   | 0779   | 0779   | 0779   | 0779   | 0779   | 0779   | 0779   | 0779   | 0779   | 0779   | 0779   | 0779   | 0779   | 0779   | 0779   | 0779   | 0779   | 0779   |          |
| ANIMAL ID  | 002226      | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 |          |
| Lymph Node, Mesenteric Histiocytic Sarcoma             | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      |          |
| Leukemia Mononuclear                                   |             | X      |        |        |        |        |        |        | X      |        |        |        |        |        |        | X      | X      |        |        |        | X      | X      |        | X      |          |
| Spleen Histiocytic Sarcoma                             | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      |          |
| Leukemia Mononuclear                                   |             | X      |        |        |        |        |        | X      | X      |        |        |        |        |        |        | X      | X      |        |        |        | X      | X      |        | X      |          |
| Mesothelioma Malignant                                 |             |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |
| Thymus Leukemia Mononuclear                            | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | M      | M      | M      | +      | +      | +      | +      | +      | +      | M      |        |          |
|  |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      | X      |        |          |
| <b>INTEGUMENTARY SYSTEM</b>                            |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |
| Mammary Gland Fibroadenoma                             | M           | M      | +      | M      | +      | +      | +      | +      | M      | +      | +      | M      | M      | M      | +      | +      | +      | M      | M      | +      | +      | +      | M      | +      | M        |
| Skin Keratoacanthoma                                   | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      |          |
| Squamous Cell Papilloma                                |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | X      | X      | X      |        |          |
| Subcutaneous Tissue, Fibroma                           |             | X      |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |
| Subcutaneous Tissue, Sarcoma                           |             |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        | X      |        |        |        |        |        |        |          |
| <b>MUSCULOSKELETAL SYSTEM</b>                          |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |
| Bone   | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      |          |
| Skeletal Muscle Carcinoma, Metastatic, Urinary Bladder |             |        |        |        |        |        |        |        |        |        |        |        |        | +      |        |        |        |        |        |        |        |        |        |        |          |
| Mesothelioma Malignant                                 |             |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |          |

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

|                              |           | 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 |   |   |
| <b>FISCHER 344 RATS MALE</b> |           | 7           | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 5 | 7 | 2 | 7 | 6 | 7 | 6 | 6 | 7 | 4 | 6 | 7        | 7 | 5 | 7 | 7 |
|                              |           | 2           | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 6 | 3 | 3 | 9 | 3 | 6 | 3 | 9 | 0 | 3 | 9 | 4 | 3        | 2 | 6 | 2 | 2 |
| <b>25 ppm</b>                |           | 9           | 1 | 1 | 9 | 9 | 0 | 9 | 6 | 5 | 0 | 4 | 1 | 1 | 0 | 4 | 7 | 1 | 2 | 9 | 0 | 9        | 0 | 9 | 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 |
|                              | 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 |   |
|                              |           | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2        | 2 | 2 | 2 |   |
|                              |           | 2           | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4        | 4 | 4 | 5 |   |
|                              |           | 6           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6        | 7 | 8 | 9 |   |

**NERVOUS SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Histiocytic Sarcoma  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Leukemia Mononuclear |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 2  |

**RESPIRATORY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Larynx                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Carcinoma, Metastatic, Thyroid Gland   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lung                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Adenoma           |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Alveolar/Bronchiolar Carcinoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Carcinoma, Metastatic, Thyroid Gland   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Carcinoma, Metastatic, Urinary Bladder |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Histiocytic Sarcoma                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Leukemia Mononuclear                   |   |   | X |   |   |   |   | X |   |   |   |   |   |   | X | X |   |   |   | X | X |   | X |   |   | 13 |
| Mesothelioma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Carcinoma                | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Nose                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X | 3  |
| Pleura                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesothelioma Malignant                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Trachea                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

**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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>25 ppm    | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | * TOTALS |  |  |
|------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--|--|
|                                    | 0729        | 0731   | 0732   | 0739   | 0749   | 0770   | 0772   | 0773   | 0779   | 0782   | 0786   | 0789   | 0790   | 0793   | 0794   | 0796   | 0797   | 0798   | 0799   | 0800   | 0801   | 0802   | 0803   | 0804   |          |  |  |
| ANIMAL ID                          | 002226      | 002227 | 002228 | 002229 | 002230 | 002231 | 002232 | 002233 | 002234 | 002235 | 002236 | 002237 | 002238 | 002239 | 002240 | 002241 | 002242 | 002243 | 002244 | 002245 | 002246 | 002247 | 002248 | 002249 | 002250   |  |  |
| Eye                                | +           | +      | +      | +      | +      | +      | +      | +      | +      | A      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 48       |  |  |
| Harderian Gland                    | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 49       |  |  |
| Zymbal's Gland                     |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |  |
| Carcinoma                          |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |  |
| <b>URINARY SYSTEM</b>              |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |  |  |
| Kidney                             | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |  |  |
| Histiocytic Sarcoma                |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1        |  |  |
| Leukemia Mononuclear               |             | X      |        |        |        |        |        | X      |        |        |        |        |        |        | X      |        |        |        |        |        | X      | X      |        | X      | 14       |  |  |
| Renal Tubule, Carcinoma            |             |        |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        | 2        |  |  |
| Urinary Bladder                    | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |  |  |
| Mesothelioma Malignant             |             |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 3        |  |  |
| Transitional Epithelium, Carcinoma |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 2        |  |  |
| <b>SYSTEMIC LESIONS</b>            |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |  |  |
| Multiple Organ                     | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50       |  |  |
| Histiocytic Sarcoma                |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 2        |  |  |
| Leukemia Mononuclear               |             | X      |        |        |        |        | X      | X      |        |        |        |        |        |        | X      | X      |        |        |        |        | X      | X      |        | X      | 17       |  |  |
| Mesothelioma Malignant             | X           |        |        |        |        |        |        |        |        | X      | X      |        |        |        |        |        |        |        |        |        |        |        |        |        | 12       |  |  |

\* .. 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

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

**Date Report Requested:** 12/12/2011  
**Time Report Requested:** 09:47:50  
**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 | 0 |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                              | 7 | 7 | 6 | 6 | 7 | 5 | 6 | 6 | 7 | 6 | 5 | 7 | 7 | 6 | 7 | 7 | 2 | 4 | 6 | 5 | 5 | 7 | 6 | 5 | 6 | 5 | 6 | 6 |
| <b>FISCHER 344 RATS MALE</b> | 3 | 0 | 0 | 4 | 2 | 0 | 9 | 6 | 3 | 6 | 8 | 2 | 2 | 4 | 3 | 2 | 9 | 1 | 6 | 5 | 0 | 3 | 8 | 9 | 8 | 9 | 8 |   |
|                              | 0 | 5 | 3 | 2 | 9 | 0 | 8 | 0 | 0 | 1 | 6 | 9 | 9 | 2 | 0 | 9 | 6 | 8 | 6 | 7 | 2 | 0 | 9 | 1 | 3 | 9 | 3 |   |
| ANIMAL ID                    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                              | 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 | 4 | 4 | 4 |
| <b>50 ppm</b>                | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                              | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

males  
(cont...)

**ALIMENTARY SYSTEM**

Esophagus  
Carcinoma, Metastatic, Thyroid Gland

|   |
|---|
| + + + + + + + + + + X + + + + + + + + + I + + + + |
|---|

Intestine Large, Cecum  
Leukemia Mononuclear  
Mesothelioma Malignant

|   |
|---|
| + + A + + A + + + + + + + + + + + + + + + X + + |
|---|

Intestine Large, Colon  
Leukemia Mononuclear

|   |
|---|
| + + + + + A + + + + + + + + + + + + + + + + + + |
|---|

Intestine Large, Rectum

|   |
|---|
| + + A + + A + + + + + + + + + + + + + + + + + + |
|---|

Intestine Small, Duodenum

|   |
|---|
| + + A + + A + + + + + + + + + + + + + + + + + + |
|---|

Intestine Small, Ileum  
Leukemia Mononuclear

|   |
|---|
| + + A + + A + + + + + + + + + + + + + + + + + + X + + |
|---|

Intestine Small, Jejunum  
Mesothelioma Malignant

|   |
|---|
| + + A + + A + + + + + + + + + + + + + + + + + + |
|---|

Liver  
Histiocytic Sarcoma  
Leukemia Mononuclear  
Mesothelioma Malignant

|   |
|---|
| + |
| X     |

Mesentery  
Mesothelioma Malignant

|   |
|---|
| + |
| X     |

Pancreas

|   |
|---|
| + |
|---|

\* .. 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

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

**Date Report Requested:** 12/12/2011  
**Time Report Requested:** 09:47:50  
**First Dose M/F:** 06/06/05 / 06/06/05  
**Lab:** BNW

| FISCHER 344 RATS MALE<br>50 ppm | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | males<br>(cont...) |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
|                                 | 0730        | 0770 | 0663 | 0664 | 0729 | 0500 | 0669 | 0668 | 0736 | 0663 | 0701 | 0656 | 0772 | 0779 | 0664 | 0733 | 0729 | 0666 | 0655 | 0570 | 0668 | 0591 | 0663 | 0656 |                    |
| ANIMAL ID                       | 0040        | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004               |
| Leukemia Mononuclear            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X                  |
| Mesothelioma Malignant          |             | X    |      | X    |      | X    |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |                    |
| Acinus, Adenoma                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Duct, Carcinoma                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X                  |
| Salivary Glands                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                  |
| Stomach, Forestomach            | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                  |
| Leukemia Mononuclear            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Mesothelioma Malignant          |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X                  |
| Stomach, Glandular              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                  |
| Leukemia Mononuclear            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X                  |
| Mesothelioma Malignant          |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X                  |

**CARDIOVASCULAR SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Heart                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |

**ENDOCRINE SYSTEM**

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Adrenal Medulla         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Pheochromocytoma Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:50

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 | 0 |
|-----------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS MALE |  | 7 | 7 | 6 | 6 | 7 | 5 | 6 | 6 | 7 | 6 | 5 | 7 | 7 | 6 | 7 | 7 | 2 | 4 | 6 | 5 | 5 | 7 | 6 | 5 | 6 | 5 | 6 | 6 |
| 50 ppm                |  | 3 | 0 | 0 | 4 | 2 | 0 | 9 | 6 | 3 | 6 | 8 | 2 | 2 | 4 | 3 | 2 | 9 | 1 | 6 | 5 | 0 | 3 | 8 | 9 | 8 | 9 | 8 | 3 |
| ANIMAL ID             |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                       |  | 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 | 4 | 4 | 4 |
|                       |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                       |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |   |

males (cont...)

Bilateral, Pheochromocytoma Benign

X

X

Islets, Pancreatic

Adenoma

Carcinoma

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| X |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

X

Parathyroid Gland

Adenoma

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |

X

Pituitary Gland

Leukemia Mononuclear

Pars Distalis, Adenoma

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   | X | X |   |   | X | X |   |   | X | X | X |   | X | X |   | X |   | X |   | X | X | X |   |   |   |   |

Thyroid Gland

C-cell, Adenoma

C-cell, Carcinoma

Follicular Cell, Carcinoma

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| X |   |   |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   | X | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |

GENERAL BODY SYSTEM

Peritoneum

Mesothelioma Malignant

Tunica Vaginalis, Mesothelioma Malignant

|   |  |  |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| + |  |  | + |   | + |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |   | X |   | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| X |  |  |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

GENITAL SYSTEM

Epididymis

Mesothelioma Malignant

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| X | X |   | X |   | X | X | X |   | X |   |   | X | X |   | X |   |   |   |   |   | X |   | X |   |   |   |   |   |

Penis

+

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>50 ppm                 | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
|   | 0730        | 0730 | 0662 | 0662 | 0759 | 0759 | 0666 | 0666 | 0776 | 0776 | 0666 | 0666 | 0776 | 0776 | 0666 | 0666 | 0776 | 0776 | 0666 | 0666 | 0776 | 0776 |                    |
| ANIMAL ID                                       | 0040        | 0040 | 0040 | 0040 | 0040 | 0040 | 0040 | 0040 | 0040 | 0040 | 0040 | 0040 | 0040 | 0040 | 0040 | 0040 | 0040 | 0040 | 0040 | 0040 | 0040 | 0040 |                    |
| Leukemia Mononuclear                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |                    |
| Lymph Node, Mediastinal<br>Leukemia Mononuclear | +           | +    | A    | +    | +    | M    | +    | M    | M    | +    | M    | M    | +    | +    | +    | M    | +    | +    | M    | +    | M    | M    |                    |
|   |             | X    |      |      |      |      |      |      |      | X    |      |      |      |      |      | X    | X    |      |      | X    |      | X    |                    |
| Lymph Node, Mesenteric<br>Leukemia Mononuclear  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                    |
|   |             | X    |      |      |      |      |      |      | X    | X    |      |      |      |      | X    | X    |      |      |      | X    |      | X    |                    |
| Spleen<br>Leukemia Mononuclear                  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                    |
| Mesothelioma Malignant                          |             | X    |      | X    |      | X    |      |      | X    | X    |      |      |      |      | X    | X    |      |      | X    |      |      | X    |                    |
| Thymus<br>Carcinoma, Metastatic, Thyroid Gland  | +           | +    | A    | +    | M    | +    | +    | M    | +    | +    | +    | +    | M    | +    | +    | +    | +    | M    | +    | +    | +    | +    |                    |
| Leukemia Mononuclear                            |             | X    |      |      |      |      |      |      |      | X    | X    |      |      |      | X    |      |      |      | X    |      |      | X    |                    |
| <b>INTEGUMENTARY SYSTEM</b>                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Mammary Gland<br>Carcinoma                      | M           | M    | M    | M    | M    | M    | M    | +    | +    | +    | M    | M    | M    | M    | +    | +    | M    | +    | +    | +    | M    | +    |                    |
| Fibroadenoma                                    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |                    |
| Skin  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    |                    |
| Keratoacanthoma                                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |                    |
| Squamous Cell Papilloma                         |             |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Trichoepithelioma                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Subcutaneous Tissue, Fibroma                    |             |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Subcutaneous Tissue, Fibroma, Multiple          |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Subcutaneous Tissue, Histiocytic Sarcoma        |             |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| Subcutaneous Tissue, Schwannoma Malignant       |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride  
CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
Time Report Requested: 09:47:50  
First Dose M/F: 06/06/05 / 06/06/05  
Lab: BNW

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

MUSCULOSKELETAL SYSTEM

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Bone                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |
| Skeletal Muscle        | + | + |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |
| Mesothelioma Malignant | X | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |

NERVOUS SYSTEM

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Brain                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Granular Cell Tumor Benign |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Histiocytic Sarcoma        |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Leukemia Mononuclear       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | X |   |  |
| Peripheral Nerve           |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Spinal Cord                |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

RESPIRATORY SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Larynx                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Carcinoma, Metastatic, Thyroid Gland |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lung                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Alveolar/Bronchiolar Adenoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |  |
| Alveolar/Bronchiolar Carcinoma       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Carcinoma, Metastatic, Kidney        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |  |
| Carcinoma, Metastatic, Thyroid Gland |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Histiocytic Sarcoma                  |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Leukemia Mononuclear                 |   |   | 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 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...) |      |
|--------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
|                                      | 0730        | 0730 | 0662 | 0664 | 0752 | 0756 | 0666 | 0666 | 0773 | 0776 | 0556 | 0776 | 0666 | 0776 | 0776 | 0224 | 0446 | 0665 | 0555 | 0776 | 0666 | 0556 | 0666 | 0000 |           |                    | 0000 |
| Nose                                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                    |      |
| Leukemia Mononuclear                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X         |                    |      |
| Sarcoma                              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Respiratory Epithelium, Adenoma      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Trachea                              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                    |      |
| Carcinoma, Metastatic, Thyroid Gland |             |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| <b>SPECIAL SENSES SYSTEM</b>         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Eye                                  | +           | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                    |      |
| Harderian Gland                      | +           | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                    |      |
| Leukemia Mononuclear                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X         |                    |      |
| <b>URINARY SYSTEM</b>                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Kidney                               | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                    |      |
| Histiocytic Sarcoma                  |             |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Leukemia Mononuclear                 |             |      |      |      |      |      |      |      |      |      | X    | X    |      |      | X    | X    |      |      |      | X    |      |      |      | X    |           |                    |      |
| Mesothelioma Malignant               |             |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Renal Tubule, Carcinoma              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |           |                    |      |
| Urinary Bladder                      | +           | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                    |      |
| Mesothelioma Malignant               |             |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| <b>SYSTEMIC LESIONS</b>              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Multiple Organ                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                    |      |
| Histiocytic Sarcoma                  |             |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |
| Leukemia Mononuclear                 |             |      | X    |      |      |      |      |      |      | X    | X    |      |      | X    | X    |      |      | X    |      |      |      |      | X    | X    |           |                    |      |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
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Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:50

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

Lab: BNW

|                              |                    |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------|--------------------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| <b>FISCHER 344 RATS MALE</b> | <b>DAY ON TEST</b> |  | 07 | 07 | 06 | 06 | 07 | 05 | 06 | 06 | 07 | 06 | 05 | 07 | 07 | 06 | 07 | 07 | 02 | 04 | 06 | 05 | 05 | 07 | 06 | 05 | 06 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
|                              | <b>ANIMAL ID</b>   |  | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 |
|                              |                    |  | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| Mesothelioma Malignant       |                    |  | X  | X  |    | X  | X  | X  |    | X  | X  | X  | X  |    | X  |    | X  | X  |    | X  | X  |    | X  | X  |    | X  |    |    |    |    |    |    |    |    |    |

males  
(cont...)

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Test Type: CHRONIC

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Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride

CAS Number: 75-35-4

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|                              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                 |      |
|------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------|------|
| <b>FISCHER 344 RATS MALE</b> | DAY ON TEST | 0730 | 0668 | 0729 | 0733 | 0535 | 0729 | 0637 | 0555 | 0554 | 0729 | 0732 | 0422 | 0723 | 0773 | 0631 | 0739 | 0566 | 0557 | 0551 | 0672 | 0733 | 0733 | 0772 | 0772 | 0772            |      |
|                              | ANIMAL ID   | 0422 | 0442 | 0442 | 0442 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044            | 0044 |
|                              |             | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0               | 0    |
| <b>50 ppm</b>                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | <b>* TOTALS</b> |      |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |                    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|--------------------|
| Esophagus<br>Carcinoma, Metastatic, Thyroid Gland                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 49<br>1            |
| Intestine Large, Cecum<br>Leukemia Mononuclear<br>Mesothelioma Malignant       | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + |   | X |   |   |   |   |   |   |          | 45<br>2<br>1       |
| Intestine Large, Colon<br>Leukemia Mononuclear                                 | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |   | X |   |   |   |   |   |   |          | 47<br>1            |
| Intestine Large, Rectum  | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |   |   | A | + | + | + | +        | 46                 |
| Intestine Small, Duodenum  | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + |   |   |   |   | A | + | + | + | +        | 45                 |
| Intestine Small, Ileum<br>Leukemia Mononuclear                                 | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + |   |   | X | X |   |   |   |   |          | 45<br>4            |
| Intestine Small, Jejunum<br>Mesothelioma Malignant                             | + |   | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + |   |   |   |   | A | + | + | + | +        | 45<br>1            |
| Liver<br>Histiocytic Sarcoma<br>Leukemia Mononuclear<br>Mesothelioma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 50<br>1<br>16<br>2 |
| Mesentery<br>Mesothelioma Malignant  | + | + | + | + |   |   |   | + | + |   |   |   |   |   |   | + |   |   |   |   |   | + | + |   |   | + | 21<br>11 |                    |
| Pancreas   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +        | 50                 |

\* .. 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

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<br>50 ppm | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |      |  |
|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|--|
|                                 | 0730        | 0668  | 0729  | 0730  | 0533  | 0729  | 0637  | 0555  | 0554  | 0729  | 0729  | 0423  | 0722  | 0733  | 0733  | 0670  | 0731  | 0596  | 0557  | 0557  | 0611  | 0729  | 0733  | 0731  |          | 0729 |  |
| ANIMAL ID                       | 00426       | 00447 | 00448 | 00449 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444    |      |  |
| Leukemia Mononuclear            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | X     | X     |       |       |       | 4        |      |  |
| Mesothelioma Malignant          |             | X     |       |       | X     |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 7        |      |  |
| Acinus, Adenoma                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Duct, Carcinoma                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Salivary Glands                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |      |  |
| Stomach, Forestomach            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |      |  |
| Leukemia Mononuclear            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     | X     |       |       |       | 2        |      |  |
| Mesothelioma Malignant          |             | X     |       |       | X     |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 5        |      |  |
| Stomach, Glandular              | +           | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |      |  |
| Leukemia Mononuclear            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     | X     |       |       |       |       | 4        |      |  |
| Mesothelioma Malignant          |             | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |      |  |
| <b>CARDIOVASCULAR SYSTEM</b>    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |  |
| Blood Vessel                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Heart                           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |      |  |
| Leukemia Mononuclear            |             |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       | X     | X     |       |       |       |       |       |       | 6        |      |  |
| <b>ENDOCRINE SYSTEM</b>         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      |  |
| Adrenal Cortex                  | +           | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |      |  |
| Adenoma                         |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |      |  |
| Leukemia Mononuclear            |             |       |       |       |       | X     |       |       |       |       |       | X     |       |       | X     |       | X     | X     |       |       |       |       |       |       | 12       |      |  |
| Adrenal Medulla                 | +           | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | I     | +     | 48       |      |  |
| Leukemia Mononuclear            |             |       |       |       |       | X     |       |       |       |       |       | X     |       |       | X     |       | X     |       |       |       |       |       |       |       | 8        |      |  |
| Pheochromocytoma Benign         |             | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 5        |      |  |

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>50 ppm          | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |    |  |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|----|--|
|  | 0730        | 0668 | 0729 | 0730 | 0533 | 0729 | 0637 | 0555 | 0554 | 0772 | 0774 | 0422 | 0723 | 0773 | 0673 | 0756 | 0556 | 0557 | 0661 | 0722 | 0733 | 0733 | 0772 | 0772 |          |    |  |
| ANIMAL ID                                | 0042        | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044     |    |  |
| Bilateral, Pheochromocytoma Benign       |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 3  |  |
| Islets, Pancreatic                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50 |  |
| Adenoma                                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |          | 3  |  |
| Carcinoma                                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X        | 4  |  |
| Parathyroid Gland                        | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | 47       |    |  |
| Adenoma                                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |    |  |
| Pituitary Gland                          | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49       |    |  |
| Leukemia Mononuclear                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 5        |    |  |
| Pars Distalis, Adenoma                   | X           |      |      | X    |      |      |      |      |      |      | X    | X    |      | X    | X    | X    |      |      |      |      |      |      | X    | X    | 26       |    |  |
| Thyroid Gland                            | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 49       |    |  |
| C-cell, Adenoma                          |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    | 4        |    |  |
| C-cell, Carcinoma                        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3        |    |  |
| Follicular Cell, Carcinoma               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    | 1        |    |  |
| <b>GENERAL BODY SYSTEM</b>               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |    |  |
| Peritoneum                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 4        |    |  |
| Mesothelioma Malignant                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    | 3        |    |  |
| Tunica Vaginalis, Mesothelioma Malignant |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |    |  |
| <b>GENITAL SYSTEM</b>                    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |    |  |
| Epididymis                               | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |    |  |
| Mesothelioma Malignant                   | X           | X    |      | X    | X    | X    | X    | X    | X    |      | X    |      |      |      | X    |      |      |      | X    |      | X    |      |      |      | 25       |    |  |
| Penis                                    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |    |  |

\* .. 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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| FISCHER 344 RATS MALE<br>50 ppm       | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |      |
|---------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|------|
|                                       | 0730        | 0668  | 0729  | 0730  | 0533  | 0729  | 0637  | 0555  | 0554  | 0772  | 0773  | 0422  | 0723  | 0773  | 0773  | 0661  | 0731  | 0596  | 0556  | 0557  |          | 0661  | 0729  | 0733  | 0731  | 0729 |
| ANIMAL ID                             | 00426       | 00447 | 00448 | 00449 | 00400 | 00401 | 00402 | 00403 | 00404 | 00405 | 00406 | 00407 | 00408 | 00409 | 00410 | 00411 | 00412 | 00413 | 00414 | 00415 | 00416    | 00417 | 00418 | 00419 | 00420 |      |
| Preputial Gland                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 49    |      |
| Adenoma                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |          | X     |       |       | 2     |      |
| Carcinoma                             |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       | X     |       |          |       | X     |       | 3     |      |
| Prostate                              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50    |      |
| Leukemia Mononuclear                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | X     |       |       | 1     |      |
| Mesothelioma Malignant                |             | X     |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 2     |      |
| Seminal Vesicle                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | +        | +     | +     | +     | 48    |      |
| Adenoma                               |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |          |       |       |       | 1     |      |
| Mesothelioma Malignant                |             | X     |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 3     |      |
| Testes                                | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50    |      |
| Mesothelioma Malignant                | X           | X     |       | X     | X     |       | X     | X     |       | X     |       |       |       |       | X     | X     | X     |       | X     |       | X        |       |       |       | 23    |      |
| Bilateral, Interstitial Cell, Adenoma | X           | X     |       |       | X     |       | X     |       |       |       |       |       |       |       | X     | X     | X     |       |       |       |          | X     |       |       | 17    |      |
| Interstitial Cell, Adenoma            |             |       | X     |       | X     |       |       |       | X     | X     | X     |       | X     | X     |       |       |       | X     |       | X     | X        | X     |       | X     | 22    |      |
| <b>HEMATOPOIETIC SYSTEM</b>           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |      |
| Bone Marrow                           | +           | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 48    |      |
| Leukemia Mononuclear                  | X           |       |       |       |       | X     |       |       | X     |       |       |       |       |       | X     |       | X     | X     |       |       |          |       |       |       | 12    |      |
| Lymph Node                            |             |       |       |       |       | +     |       |       | +     |       |       |       |       |       |       |       |       |       | +     | +     |          | +     |       |       | 9     |      |
| Deep Cervical, Leukemia Mononuclear   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |          |       |       |       | 2     |      |
| Pancreatic, Leukemia Mononuclear      |             |       |       |       |       | X     |       |       | X     |       |       |       |       |       |       |       |       | X     |       |       |          |       |       |       | 6     |      |
| Lymph Node, Bronchial                 | +           | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | +     | M     | M     | +     | +     | M     | M        | M     | M     | M     | 9     |      |
| Leukemia Mononuclear                  | X           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     | X     |       |       |          |       |       |       | 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     | 1     |      |

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| FISCHER 344 RATS MALE                           |   | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |
|---|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
| 50 ppm  |   | 0730        | 0668 | 0729 | 0733 | 0535 | 0729 | 0637 | 0555 | 0554 | 0729 | 0723 | 0422 | 0723 | 0723 | 0733 | 0611 | 0731 | 0539 | 0556 | 0557 | 0661 | 0729 | 0733 | 0731 |          | 0729 |
| ANIMAL ID                                       |   | 0042        | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044     | 0044 |
| Leukemia Mononuclear                            |   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 1    |
| Lymph Node, Mediastinal<br>Leukemia Mononuclear | + M M + M + M M M + M + M + M + M M + + + M M M + | X           |      |      |      | X    |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |          | 24   |
|   |   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 9    |
| Lymph Node, Mesenteric<br>Leukemia Mononuclear  | +   | X           |      |      |      | X    |      |      |      |      |      |      | X    |      |      |      | X    | X    | X    | X    |      |      |      |      |      |          | 50   |
|   |   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 16   |
| Spleen<br>Leukemia Mononuclear                  | +   | X           |      |      |      | X    |      |      |      |      |      |      | X    |      |      |      | X    | X    | X    | X    |      |      |      |      |      |          | 50   |
| Mesothelioma Malignant                          |   |             | X    |      |      | X    |      |      | X    |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |          | 16   |
|   |   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 8    |
| Thymus<br>Carcinoma, Metastatic, Thyroid Gland  | + M + + + + + M + + M + + + + + + + + + + M + +   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 41   |
| Leukemia Mononuclear                            |   | X           |      |      |      | X    |      |      |      |      |      |      |      |      |      |      | X    |      | X    | X    |      |      |      |      |      |          | 1    |
|   |   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 10   |

**INTEGUMENTARY SYSTEM**

|   |   |   |  |  |  |  |   |  |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |   |  |    |    |
|---|---|---|--|--|--|--|---|--|--|--|--|--|--|--|--|--|---|---|--|--|--|--|--|---|--|----|----|
| Mammary Gland<br>Carcinoma                | + + + + M + + M M + + + M + M M + + M M M + + M M | X |  |  |  |  |   |  |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |   |  | 24 |    |
| Fibroadenoma                              |   |   |  |  |  |  |   |  |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |   |  |    | 1  |
|   |   |   |  |  |  |  |   |  |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |   |  |    | 1  |
| Skin<br>Keratoacanthoma                   | +   |   |  |  |  |  |   |  |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |   |  |    | 49 |
| Squamous Cell Papilloma                   |   |   |  |  |  |  |   |  |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |   |  |    | 3  |
| Trichoepithelioma                         |   | X |  |  |  |  | X |  |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |   |  |    | 1  |
| Subcutaneous Tissue, Fibroma              |   |   |  |  |  |  |   |  |  |  |  |  |  |  |  |  | X |   |  |  |  |  |  |   |  |    | 2  |
| Subcutaneous Tissue, Fibroma, Multiple    |   |   |  |  |  |  |   |  |  |  |  |  |  |  |  |  |   | X |  |  |  |  |  |   |  |    | 2  |
| Subcutaneous Tissue, Histiocytic Sarcoma  |   |   |  |  |  |  |   |  |  |  |  |  |  |  |  |  |   |   |  |  |  |  |  |   |  |    | 1  |
| Subcutaneous Tissue, Schwannoma 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:50

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

Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |
|-----------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
|                       | 07          | 06 | 07 | 07 | 05 | 07 | 06 | 05 | 05 | 07 | 07 | 04 | 07 | 07 | 07 | 06 | 07 | 05 | 05 | 05 | 06 | 07 | 07 | 07 |          |
| 50 ppm                | 30          | 68 | 29 | 30 | 35 | 29 | 35 | 54 | 74 | 29 | 32 | 29 | 03 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       |
|                       | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       |
|                       | 44          | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 |          |
|                       | 22          | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 55 |          |
|                       | 66          | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 |          |

MUSCULOSKELETAL SYSTEM

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Skeletal Muscle        |   | + |   |   | + |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 7  |
| Mesothelioma Malignant |   | X |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 7  |

NERVOUS SYSTEM

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Granular Cell Tumor Benign |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Histiocytic Sarcoma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Leukemia Mononuclear       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   | 3  |
| Peripheral Nerve           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Spinal Cord                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

RESPIRATORY SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Larynx                               | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 49 |
| Carcinoma, Metastatic, Thyroid Gland |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |
| Lung                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |
| Alveolar/Bronchiolar Adenoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |    | 3  |
| Alveolar/Bronchiolar Carcinoma       |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |
| Carcinoma, Metastatic, Kidney        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |
| Carcinoma, Metastatic, Thyroid Gland |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |
| Histiocytic Sarcoma                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  |
| Leukemia Mononuclear                 | X |   |   |   | X |   |   | X |   |   | X |   | X |   | X | X | X | X |   |   |   |   |   | 16 |    |

\* .. 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>50 ppm      | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |  |
|--------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
|                                      | 0730        | 0668  | 0729  | 0730  | 0533  | 0729  | 0637  | 0555  | 0554  | 0729  | 0729  | 0422  | 0729  | 0729  | 0673  | 0751  | 0556  | 0557  | 0557  | 0661  | 0729  | 0729  | 0729  | 0729  |          |  |
| ANIMAL ID                            | 00426       | 00442 | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 |          |  |
| Nose                                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |  |
| Leukemia Mononuclear                 |             |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       | 3        |  |
| Sarcoma                              |             |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |  |
| Respiratory Epithelium, Adenoma      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 1        |  |
| Trachea                              | +           | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |  |
| Carcinoma, Metastatic, Thyroid Gland |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |  |
| <b>SPECIAL SENSES SYSTEM</b>         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |  |
| Eye                                  | +           | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | +     | +     | +     | +     | 47       |  |
| Harderian Gland                      | +           | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 48       |  |
| Leukemia Mononuclear                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |  |
| <b>URINARY SYSTEM</b>                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |  |
| Kidney                               | +           | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |  |
| Histiocytic Sarcoma                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |  |
| Leukemia Mononuclear                 | X           |       |       |       |       | X     |       |       | X     |       |       |       |       |       | X     | X     | X     | X     |       |       |       |       |       |       | 13       |  |
| Mesothelioma Malignant               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |  |
| Renal Tubule, Carcinoma              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |  |
| Urinary Bladder                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |  |
| Mesothelioma Malignant               |             | X     |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3        |  |
| <b>SYSTEMIC LESIONS</b>              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |  |
| Multiple Organ                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |  |
| Histiocytic Sarcoma                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |  |
| Leukemia Mononuclear                 | X           |       |       |       |       | X     |       |       | X     |       |       | X     |       |       | X     | X     | X     | X     |       |       |       |       |       |       | 16       |  |

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:50

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

Lab: BNW

| FISCHER 344 RATS MALE<br>50 ppm | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|                                 | 0730        | 0668  | 0729  | 0730  | 0533  | 0729  | 0637  | 0525  | 0554  | 0574  | 0723  | 0723  | 0422  | 0723  | 0723  | 0631  | 0731  | 0539  | 0556  | 0557  | 0617  | 0723  | 0733  | 0732  |       |          |
| ANIMAL ID                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
|                                 | 00426       | 00447 | 00448 | 00449 | 00440 | 00441 | 00442 | 00443 | 00444 | 00445 | 00446 | 00447 | 00448 | 00449 | 00450 | 00451 | 00452 | 00453 | 00454 | 00455 | 00456 | 00457 | 00458 | 00459 | 00460 |          |
| Mesothelioma Malignant          | 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  
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Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 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 | 0 |
| FISCHER 344 RATS MALE |  | 7               | 7 | 7 | 7 | 6 | 7 | 6 | 4 | 7 | 7 | 4 | 5 | 7 | 7 | 6 | 0 | 7 | 6 | 5 | 7 | 7 | 6 | 5 | 6 | 6 | 7 | 6 | 7 |
| 100 ppm               |  | 0               | 3 | 2 | 2 | 3 | 3 | 5 | 9 | 2 | 3 | 4 | 4 | 2 | 3 | 7 | 1 | 1 | 7 | 3 | 3 | 2 | 0 | 0 | 6 | 1 | 9 | 2 | 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 |
|                       |  | 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 |
|                       |  | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|                       |  | 1               | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|                       |  | males (cont...) |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

ALIMENTARY SYSTEM

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + |   |
| Leukemia Mononuclear      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesothelioma Malignant    |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesothelioma Malignant    |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesothelioma Malignant    |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesothelioma Malignant    |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cholangiocarcinoma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear      |   |   |   |   |   | X |   |   | X |   | X | X | X |   |   |   |   | X | X | X |   | X |   |   |   |   |   |   |   |
| Mesothelioma Malignant    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesentery                 | + | + |   | + | + | + | + | + |   |   |   | + | + | + |   |   |   |   | + |   | + | + |   |   | + |   |   |   |   |

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 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...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
|  | 0701        | 0703 | 0702 | 0722 | 0723 | 0733 | 0755 | 0766 | 0744 | 0777 | 0744 | 0755 | 0777 | 0766 | 0700 | 0777 | 0766 | 0755 | 0777 | 0722 | 0766 | 0755 | 0766 | 0755 | 0766 |           |                    |
| Mesothelioma Malignant                 | X           |      |      | X    |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      | X    |      |      | X    |      |           |                    |
| Pancreas                               | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                    |
| Leukemia Mononuclear                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Mesothelioma Malignant                 |             |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      | X    |      |           |                    |
| Acinus, Carcinoma                      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |           |                    |
| Salivary Glands                        | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                    |
| Leukemia Mononuclear                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Stomach, Forestomach                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                    |
| Leukemia Mononuclear                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Mesothelioma Malignant                 |             |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      | X    |      |           |                    |
| Stomach, Glandular                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                    |
| Leukemia Mononuclear                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Mesothelioma Malignant                 |             |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      | X    |      |           |                    |
| Tongue                                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | +         |                    |
| <b>CARDIOVASCULAR SYSTEM</b>           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Heart                                  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                    |
| Fibrous Histiocytoma, Metastatic, Skin |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Leukemia Mononuclear                   |             |      |      |      |      |      |      |      |      |      |      | X    | X    | X    |      |      |      |      |      |      | X    |      | X    |      |      | X         |                    |
| <b>ENDOCRINE SYSTEM</b>                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |
| Adrenal Cortex                         | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         |                    |
| Leukemia Mononuclear                   |             |      |      |      |      | 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<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 | ANIMAL ID | males<br>(cont...) |  |
|------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|--------------------|--|
|                                    |             | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 4 | 7 | 7 | 4 | 5 | 7 | 7 | 6 | 0 | 7 | 6 | 5 | 7 | 7 | 6 | 5 | 6 | 6 | 7 |           |                    |  |
|                                    |             | 0 | 3 | 2 | 2 | 3 | 3 | 5 | 9 | 2 | 3 | 4 | 4 | 2 | 3 | 7 | 1 | 1 | 7 | 3 | 3 | 0 | 0 | 6 | 1 | 9 | 2 |           |                    |  |
|                                    |             | 1 | 0 | 9 | 9 | 5 | 0 | 6 | 5 | 9 | 0 | 9 | 2 | 6 | 0 | 0 | 0 | 8 | 6 | 4 | 1 | 9 | 0 | 0 | 1 | 9 | 2 |           |                    |  |
|                                    |             | 0 | 0 | 0 | 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         |                    |  |
|                                    |             | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2         |                    |  |
|                                    |             | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |           |                    |  |
| Adrenal Medulla                    |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |                    |  |
| Leukemia Mononuclear               |             |   |   |   |   |   | X |   |   |   |   |   | X | X |   |   |   |   |   |   | X |   |   |   |   |   | X |           |                    |  |
| Pheochromocytoma Benign            |             |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |           |                    |  |
| Pheochromocytoma Malignant         |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |           |                    |  |
| Bilateral, Pheochromocytoma Benign |             |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |  |
| Islets, Pancreatic                 |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |                    |  |
| Adenoma                            |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |  |
| Carcinoma                          |             |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |           |                    |  |
| Parathyroid Gland                  |             | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |           |                    |  |
| Pituitary Gland                    |             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |           |                    |  |
| Leukemia Mononuclear               |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |  |
| 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 |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |           |                    |  |

GENERAL BODY SYSTEM

|  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peritoneum                                       | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mesothelioma Malignant                           | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Osteosarcoma, Metastatic, Uncertain Primary Site |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tissue NOS                                       |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Abdominal, Leukemia Mononuclear                  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 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...) |      |      |      |      |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|
|                                  | 0701        | 0703 | 0702 | 0722 | 0723 | 0733 | 0755 | 0766 | 0744 | 0777 | 0744 | 0755 | 0777 | 0777 | 0766 | 0700 | 0777 | 0766 | 0755 | 0777 |           |                    | 0766 | 0755 | 0766 | 0755 |
|                                  | 0           | 0    | 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    | 6    | 7    | 6    | 4    | 7    | 7    | 4    | 5    | 7    | 7    | 6    | 0    | 7    | 6    | 5    | 7    | 7         | 6                  | 5    | 6    | 6    | 7    |
|                                  | 0           | 3    | 2    | 2    | 3    | 3    | 5    | 9    | 2    | 3    | 4    | 4    | 2    | 3    | 7    | 1    | 1    | 7    | 3    | 3    | 2         | 0                  | 6    | 1    | 9    | 2    |
|                                  | 1           | 0    | 9    | 9    | 5    | 0    | 6    | 5    | 9    | 0    | 9    | 2    | 6    | 0    | 0    | 0    | 8    | 6    | 4    | 1    | 9         | 0                  | 0    | 1    | 9    | 2    |
|                                  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                  | 0    | 0    | 0    | 0    |
|                                  | 0           | 0    | 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    |
|                                  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 2         | 2                  | 2    | 2    | 2    | 2    |
|                                  | 1           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1         | 2                  | 3    | 4    | 5    |      |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |   |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|---|--|--|--|--|
| Lymph Node<br>Deep Cervical, Leukemia Mononuclear<br>Pancreatic, Leukemia Mononuclear | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |  |  |  |  |  | X |  |  |  |  |
| Lymph Node, Bronchial<br>Leukemia Mononuclear   | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | + | X | M | M | + | X |  |  |  |  |  |   |  |  |  |  |
| 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 | M | M | M | M | M | M |  |  |  |  |  |   |  |  |  |  |
| Lymph Node, Mediastinal<br>Leukemia Mononuclear                                       | + | + | M | + | M | + | M | + | + | + | + | M | + | + | + | + | M | M | M | M | + | M | M | M | M |   |   |   |   |   |  |  |  |  |  |   |  |  |  |  |
| Lymph Node, Mesenteric<br>Leukemia Mononuclear  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |  |  |  |   |  |  |  |  |
| Spleen<br>Leukemia Mononuclear<br>Mesothelioma Malignant                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |  |  |  |  |   |  |  |  |  |
| Thymus<br>Leukemia Mononuclear  | + | + | + | + | M | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M |   |  |  |  |  |  |   |  |  |  |  |

**INTEGUMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland<br>Fibroadenoma  | + | M | + | + | + | + | + | + | + | + | + | + | M | M | + | + | M | M | M | + | + | M | + | + | + |   |   |   |   |   |
| Skin<br>Basal Cell Adenoma<br>Keratoacanthoma<br>Squamous Cell Papilloma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 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 | 0                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DAY ON TEST                  | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 4 | 7 | 7 | 4 | 5 | 7 | 7 | 6 | 0 | 7 | 6 | 5 | 7 | 7 | 6 | 5 | 6 | 6                  | 7 | 7 | 6 | 5 | 6 | 7 | 7 | 6 | 7 |
| <b>FISCHER 344 RATS MALE</b> | 0 | 3 | 2 | 2 | 3 | 3 | 5 | 9 | 2 | 3 | 4 | 4 | 2 | 3 | 7 | 1 | 1 | 7 | 3 | 3 | 2 | 0 | 6 | 1 | 9                  | 2 | 9 | 2 | 9 | 2 | 9 | 2 | 9 |   |
| <b>100 ppm</b>               | 1 | 0 | 0 | 9 | 9 | 5 | 0 | 6 | 5 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 8 | 6 | 4 | 1 | 9 | 0 | 1 | 9 | 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 |   |
|                              | 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 |   |
|                              | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2                  | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |   |
|                              | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5                  |   |   |   |   |   |   |   |   |   |
|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | males<br>(cont...) |   |   |   |   |   |   |   |   |   |

Subcutaneous Tissue, Fibroma

X

X

Subcutaneous Tissue, Fibrosarcoma

Subcutaneous Tissue, Fibrous Histiocytoma

Subcutaneous Tissue, Lipoma

MUSCULOSKELETAL SYSTEM

Bone

Osteosarcoma

+ +

Skeletal Muscle

Mesothelioma Malignant

+

+

+

X

X

X

NERVOUS SYSTEM

Brain

Leukemia Mononuclear

+ +

X

X

X

RESPIRATORY SYSTEM

Larynx

Leukemia Mononuclear

+ +

X

Lung

Alveolar/Bronchiolar Adenoma

Alveolar/Bronchiolar Carcinoma

Carcinoma, Metastatic, Kidney

Fibrous Histiocytoma, Metastatic, Skin

Leukemia Mononuclear

Osteosarcoma, Metastatic, Uncertain Primary Site

+ +

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE           | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ANIMAL ID | males<br>(cont...) |    |    |
|---------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|--------------------|----|----|
|                                 | 07          | 07 | 07 | 07 | 06 | 07 | 06 | 04 | 07 | 07 | 04 | 05 | 07 | 07 | 06 | 00 | 07 | 06 | 05 | 07 |           |                    | 06 | 05 |
| 100 ppm                         | 01          | 03 | 02 | 02 | 03 | 03 | 05 | 09 | 02 | 03 | 04 | 04 | 02 | 03 | 07 | 01 | 01 | 07 | 03 | 03 | 09        | 00                 | 00 | 00 |
|                                 | 60          | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60        | 60                 | 60 | 60 |
|                                 | 11          | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 22 | 22        | 22                 | 22 | 22 |
| Nose                            | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +         | +                  | +  | +  |
| Leukemia Mononuclear            |             |    |    |    |    |    |    |    |    |    | X  | X  |    |    |    |    |    |    |    |    | X         |                    |    |    |
| Respiratory Epithelium, Adenoma |             |    |    | X  | X  |    |    |    | X  |    |    |    |    |    |    |    |    |    |    |    |           |                    |    |    |
| Pleura                          |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                    |    |    |
|                                 |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                    |    |    |
| Trachea                         | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +         | +                  | +  | +  |
| <b>SPECIAL SENSES SYSTEM</b>    |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                    |    |    |
| Eye                             | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +         | +                  | +  | +  |
| Harderian Gland                 | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +         | +                  | +  | +  |
| Leukemia Mononuclear            |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                    | X  |    |
| <b>URINARY SYSTEM</b>           |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                    |    |    |
| Kidney                          | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +         | +                  | +  | +  |
| Leukemia Mononuclear            |             |    |    |    |    | X  |    |    | X  |    | X  | X  |    |    |    |    |    | X  | X  | X  |           | X                  |    | X  |
| Mesenchymal Tumor Malignant     |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                    |    |    |
| Mesothelioma Malignant          |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                    | X  |    |
| Renal Tubule, Carcinoma         |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                    |    |    |
| Urinary Bladder                 | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +         | +                  | +  | +  |
| Leukemia Mononuclear            |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                    |    |    |
| Mesothelioma Malignant          |             |    |    |    |    |    |    |    |    |    |    |    | X  |    |    |    |    |    |    |    |           | X                  |    |    |
| <b>SYSTEMIC LESIONS</b>         |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |                    |    |    |
| Multiple Organ                  | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +         | +                  | +  | +  |
| Leukemia Mononuclear            |             |    |    |    |    | 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:50

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

Lab: BNW

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

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 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 |
|------------------------------|----------------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>FISCHER 344 RATS MALE</b> | <b>100 ppm</b> | 7               | 7 | 6 | 6 | 7 | 7 | 6 | 4 | 5 | 7 | 7 | 7 | 5 | 5 | 6 | 5 | 7 | 5 | 6 | 6 | 6 | 6 | 7 | 6 | 7 |   |
|                              |                | 3               | 3 | 2 | 9 | 3 | 3 | 9 | 3 | 8 | 0 | 2 | 2 | 9 | 3 | 9 | 3 | 2 | 8 | 5 | 0 | 9 | 1 | 3 | 1 | 3 |   |
| ANIMAL ID                    |                | 0               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |
|                              |                | 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 |   |
|                              |                | 2               | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |   |
|                              |                | 6               | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |   |
|                              |                | <b>* TOTALS</b> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**ALIMENTARY SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 46 |
| Leukemia Mononuclear      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesothelioma Malignant    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Large, Colon    | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 48 |
| Adenoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | 1  |
| Leukemia Mononuclear      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Mesothelioma Malignant    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 49 |
| Mesothelioma Malignant    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 47 |
| Leukemia Mononuclear      |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Mesothelioma Malignant    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 47 |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cholangiocarcinoma        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Leukemia Mononuclear      |   |   |   |   | X | X |   | X | X | X |   |   |   |   |   | X |   | X | X |   | X |   |   |   |   | 20 |
| Mesothelioma Malignant    |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | X |   |   |   |   |   | 2  |
| Mesentery                 |   |   |   |   |   |   |   | + |   | + |   |   |   |   | + | + |   |   |   | + |   | + | + |   |   | 23 |

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>100 ppm       | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |       |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  | 0730        | 0730  | 0668  | 0668  | 0770  | 0770  | 0664  | 0664  | 0577  | 0577  | 0777  | 0777  | 0555  | 0555  | 0666  | 0666  | 0557  | 0557  | 0666  | 0666  |          | 0777  | 0777  | 0667  | 0667  | 0553  | 0553  | 0773  | 0773  | 0553  |
| ANIMAL ID                              | 00626       | 00667 | 00668 | 00669 | 00670 | 00671 | 00672 | 00673 | 00674 | 00675 | 00676 | 00677 | 00678 | 00679 | 00680 | 00681 | 00682 | 00683 | 00684 | 00685 | 00686    | 00687 | 00688 | 00689 | 00690 | 00691 | 00692 | 00693 | 00694 | 00695 |
| Mesothelioma Malignant                 |             |       |       |       |       |       | X     |       |       | X     |       |       | X     |       | X     |       |       | X     | X     |       | X        | X     |       |       |       |       |       |       |       | 13    |
| Pancreas                               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | 49    |       |
| Leukemia Mononuclear                   |             |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |          |       |       |       |       |       |       |       | 2     |       |
| Mesothelioma Malignant                 |             |       |       |       |       |       | X     |       |       |       |       |       | X     |       |       |       |       | X     |       |       |          | X     |       |       |       |       |       |       | 6     |       |
| Acinus, Carcinoma                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       | 1     |       |
| Salivary Glands                        | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | 50    |       |
| Leukemia Mononuclear                   |             |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       | 1     |       |
| Stomach, Forestomach                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | 50    |       |
| Leukemia Mononuclear                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |          |       |       |       |       |       |       |       | 1     |       |
| Mesothelioma Malignant                 |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       | X     |       |       |          |       | X     |       |       |       |       |       | 5     |       |
| Stomach, Glandular                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | 50    |       |
| Leukemia Mononuclear                   |             |       |       |       |       |       |       |       | X     | X     |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | X     |       |       | 3     |       |
| Mesothelioma Malignant                 |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |          |       | X     |       |       |       |       |       | 4     |       |
| Tongue                                 |             |       |       |       | +     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       | 2     |       |
| <b>CARDIOVASCULAR SYSTEM</b>           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |
| Heart                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | 50    |       |
| Fibrous Histiocytoma, Metastatic, Skin |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       | X     |       | 1     |       |
| Leukemia Mononuclear                   |             |       |       |       |       |       |       | X     | X     | X     |       |       |       |       | X     |       |       |       | X     | X     |          |       |       |       |       |       |       |       | 12    |       |
| <b>ENDOCRINE SYSTEM</b>                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |       |       |       |       |       |
| Adrenal Cortex                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | +     | +     | +     | 50    |       |
| Leukemia Mononuclear                   |             |       |       |       | X     | X     |       |       | X     | X     |       |       |       |       | X     |       |       | X     | X     | X     |          | X     |       |       |       |       |       |       | 16    |       |

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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>100 ppm                 | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|  | 0730        | 0730  | 0668  | 0668  | 0770  | 0770  | 0664  | 0664  | 0557  | 0557  | 0777  | 0777  | 0555  | 0555  | 0666  | 0666  | 0555  | 0555  | 0777  | 0777  | 0666  | 0666  | 0555  | 0555  |          |
| ANIMAL ID  | 00626       | 00667 | 00668 | 00669 | 00670 | 00671 | 00672 | 00673 | 00674 | 00675 | 00676 | 00677 | 00678 | 00679 | 00680 | 00681 | 00682 | 00683 | 00684 | 00685 | 00686 | 00687 | 00688 | 00689 |          |
| Adrenal Medulla                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Leukemia Mononuclear                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       | X     | X     | X     |       | 11       |
| Pheochromocytoma Benign                          |             |       | X     | X     |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       | 7        |
| Pheochromocytoma Malignant                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Bilateral, Pheochromocytoma Benign               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Islets, Pancreatic                               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |
| Adenoma  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     | 1        |
| Carcinoma  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       | 4        |
| Parathyroid Gland                                | +           | +     | M     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | 45       |
| Pituitary Gland                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Leukemia Mononuclear                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     | X     | X     | 3        |
| Pars Distalis, Adenoma                           | X           | X     | X     |       | X     |       | X     | X     |       | X     |       |       | X     | X     |       |       | X     |       |       | X     | X     |       | X     | X     | 33       |
| Thyroid Gland                                    | +           | +     | +     | +     | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | 48       |
| C-cell, Adenoma                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| C-cell, Carcinoma                                |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3        |
| <b>GENERAL BODY SYSTEM</b>                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Peritoneum                                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3        |
| Mesothelioma Malignant                           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |
| Osteosarcoma, Metastatic, Uncertain Primary Site |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Tissue NOS                                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Abdominal, Leukemia Mononuclear                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|-----------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|                       | 0730        | 0730  | 0668  | 0668  | 0770  | 0770  | 0664  | 0664  | 0575  | 0575  | 0777  | 0777  | 0575  | 0575  | 0666  | 0666  | 0575  | 0575  | 0777  | 0777  | 0666  | 0666  | 0575  | 0575  |          |
| 100 ppm               | 00626       | 00626 | 00626 | 00626 | 00633 | 00633 | 00633 | 00633 | 00633 | 00633 | 00633 | 00633 | 00633 | 00633 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 | 30       |
|                       | 67          | 67    | 68    | 69    | 60    | 61    | 62    | 63    | 64    | 65    | 66    | 67    | 68    | 69    | 60    | 61    | 62    | 63    | 64    | 65    | 66    | 67    | 68    | 69    | 0        |

**GENITAL SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| Coagulating Gland                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3  |
| Epididymis                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |
| Leukemia Mononuclear                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |    | 1  |
| Mesothelioma Malignant                | X | X |   |   |   |   | X |   |   | X | X |   | X | X |   |   | X | X |   | X | X |   |   | 23 |    |
| Preputial Gland                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |
| Leukemia Mononuclear                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1  |    |
| Prostate                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |
| Adenoma                               |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 1  |    |
| Leukemia Mononuclear                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1  |    |
| Mesothelioma Malignant                |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   | 3  |    |
| Seminal Vesicle                       | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |    |
| Adenoma                               |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 1  |    |
| Mesothelioma Malignant                |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   | X | X | X | 5  |    |
| Testes                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |
| Leukemia Mononuclear                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | 1  |    |
| Mesothelioma Malignant                | X |   |   |   |   |   | X |   |   | X | X |   | X | X |   |   | X | X |   | X | X |   |   | 20 |    |
| Bilateral, Interstitial Cell, Adenoma |   |   |   | X |   | X |   |   |   | X | X | X |   |   |   | X | X |   |   | X |   |   |   | 14 |    |
| Interstitial Cell, Adenoma            |   | X |   |   |   | X |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   | X |   | 11 |    |

**HEMATOPOIETIC SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 49 |
| Leukemia Mononuclear |   |   |   |   |   |   |   | X | X | X |   |   |   |   | X |   |   |   | X | X |   | X |   | 15 |

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br><br>100 ppm | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |
|--------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
|                                      | 0730        | 0730  | 0628  | 0698  | 0733  | 0733  | 0694  | 0657  | 0773  | 0773  | 0753  | 0553  | 0663  | 0593  | 0723  | 0583  | 0663  | 0668  | 0691  | 0733  |          | 0673  | 0763  |       |
|                                      | ANIMAL ID   | 00626 | 00662 | 00622 | 00622 | 00633 | 00633 | 00633 | 00633 | 00633 | 00633 | 00633 | 00633 | 00633 | 00644 | 00644 | 00644 | 00644 | 00644 | 00644 |          | 00644 | 00644 | 00655 |
| Lymph Node                           |             |       |       |       |       |       |       |       | +     | +     |       |       |       |       | +     |       |       |       |       |       | +        | +     | 7     |       |
| Deep Cervical, Leukemia Mononuclear  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | X     | X     | 2     |
| Pancreatic, Leukemia Mononuclear     |             |       |       |       |       |       |       |       |       | X     | X     |       |       |       | X     |       |       |       |       |       | X        | X     | 6     |       |
| Lymph Node, Bronchial                | M           | M     | M     | M     | M     | M     | +     | M     | M     | M     | M     | M     | +     | M     | M     | +     | M     | +     | M     | +     | M        | M     | 9     |       |
| Leukemia Mononuclear                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | X     | X     | 5     |
| 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     | 0     |       |
| Lymph Node, Mediastinal              | +           | +     | +     | +     | +     | +     | M     | M     | +     | +     | M     | +     | +     | +     | +     | M     | +     | M     | M     | +     | +        | M     | 30    |       |
| Leukemia Mononuclear                 |             |       |       |       |       | X     | X     |       | X     | X     |       |       |       |       | X     |       |       |       |       | X     | X        | X     | 12    |       |
| Lymph Node, Mesenteric               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50    |       |
| Leukemia Mononuclear                 |             |       |       |       | X     | X     |       | X     | X     | X     |       |       |       |       | X     |       | X     |       | X     | X     | X        | X     | 19    |       |
| Spleen                               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50    |       |
| Leukemia Mononuclear                 |             |       |       |       | X     | X     |       | X     | X     | X     |       |       |       |       | X     |       | X     |       | X     | X     | X        | X     | 20    |       |
| Mesothelioma Malignant               |             |       |       |       |       |       | X     |       |       |       |       |       | X     |       |       |       |       |       | X     | X     |          |       | 7     |       |
| Thymus                               | +           | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | I     | +     | +     | +     | +     | +     | M        | +     | 44    |       |
| Leukemia Mononuclear                 |             |       |       |       |       | X     |       | X     | X     | X     |       |       |       |       |       |       |       |       | X     |       | X        |       | 10    |       |
| <b>INTEGUMENTARY SYSTEM</b>          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |
| Mammary Gland                        | +           | +     | +     | +     | +     | +     | M     | M     | +     | +     | +     | +     | M     | M     | +     | M     | +     | M     | M     | M     | M        | +     | 32    |       |
| Fibroadenoma                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |          |       | 2     |       |
| Skin                                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50    |       |
| Basal Cell Adenoma                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1     |       |
| Keratoacanthoma                      |             |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |          |       | 2     |       |
| Squamous Cell Papilloma              |             |       |       |       |       |       |       |       |       |       |       | 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS MALE<br>100 ppm | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|                                  | 0730        | 0733  | 0738  | 0762  | 0766  | 0773  | 0777  | 0764  | 0745  | 0777  | 0777  | 0757  | 0755  | 0766  | 0755  | 0777  | 0758  | 0765  | 0766  | 0766  | 0777  | 0766  | 0777  |          |
| ANIMAL ID                        | 00626       | 00662 | 00668 | 00669 | 00670 | 00671 | 00672 | 00673 | 00674 | 00675 | 00676 | 00677 | 00678 | 00679 | 00680 | 00681 | 00682 | 00683 | 00684 | 00685 | 00686 | 00687 | 00688 |          |

|   |   |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  |   |
|---|---|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|---|--|--|---|
| Subcutaneous Tissue, Fibroma              | X |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |   |  |  | 3 |
| Subcutaneous Tissue, Fibrosarcoma         |   |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |   |  |  | 1 |
| Subcutaneous Tissue, Fibrous Histiocytoma |   |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  | X |  |  | 1 |
| Subcutaneous Tissue, Lipoma               |   |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |   |  |  | 1 |

**MUSCULOSKELETAL SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Osteosarcoma           |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Skeletal Muscle        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 11 |
| Mesothelioma Malignant |   |   |   |   |   |   | X |   |   | X |   |   | X | X |   |   | X | X |   | X | X |   |   | 11 |

**NERVOUS SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear |   |   |   |   |   |   |   | X | X | X |   |   |   | X |   |   |   |   |   |   |   |   |   | 7  |

**RESPIRATORY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Larynx   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 49 |
| Leukemia Mononuclear                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Lung   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Alveolar/Bronchiolar Adenoma                     |   |   |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   |   |   | 3  |
| Alveolar/Bronchiolar Carcinoma                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Carcinoma, Metastatic, Kidney                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 1  |
| Fibrous Histiocytoma, Metastatic, Skin           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | 1  |
| Leukemia Mononuclear                             |   |   |   |   | X | X |   | X | X | X |   |   | X |   |   | X | X | X |   | X |   |   |   | 20 |
| Osteosarcoma, Metastatic, Uncertain Primary Site |   |   |   |   |   |   | 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

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

**Date Report Requested:** 12/12/2011  
**Time Report Requested:** 09:47:50  
**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  | ANIMAL ID |    | * TOTALS |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----------|----|----------|
|                                 | 7 | 7 | 6 | 6 | 7 | 7 | 6 | 4 | 5 | 7 | 7 | 7 | 5 | 5 | 6 | 5 | 7 | 5 | 6 | 6 | 6 | 6 | 7 | 6  |           |    |          |
| <b>FISCHER 344 RATS MALE</b>    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |           |    |          |
| <b>100 ppm</b>                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |           |    |          |
| Nose                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | +         | 50 |          |
| Leukemia Mononuclear            |   |   |   |   |   | X |   | X | X |   |   |   |   |   |   |   |   |   | X | X |   | X |   |    | 9         |    |          |
| Respiratory Epithelium, Adenoma |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 4         |    |          |
| Pleura                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |           | 1  |          |
| Trachea                         | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | +  | 48        |    |          |
| <b>SPECIAL SENSES SYSTEM</b>    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |           |    |          |
| Eye                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | +  | 49        |    |          |
| Harderian Gland                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | +  | 49        |    |          |
| Leukemia Mononuclear            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2         |    |          |
| <b>URINARY SYSTEM</b>           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |           |    |          |
| Kidney                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50        |    |          |
| Leukemia Mononuclear            |   |   |   |   | X | X |   | X | X | X |   |   |   | X |   |   |   |   | X | X |   | X |   | 18 |           |    |          |
| Mesenchymal Tumor Malignant     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 1  |           |    |          |
| Mesothelioma Malignant          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |           |    |          |
| Renal Tubule, Carcinoma         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   | 1  |           |    |          |
| Urinary Bladder                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50        |    |          |
| Leukemia Mononuclear            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | 1  |           |    |          |
| Mesothelioma Malignant          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   | X |   |   |   |   | 5  |           |    |          |
| <b>SYSTEMIC LESIONS</b>         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |           |    |          |
| Multiple Organ                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50        |    |          |
| Leukemia Mononuclear            |   |   |   |   | X | X |   | X | X | X |   |   |   | X |   |   | X | X | X |   | X |   |   | 20 |           |    |          |

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

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

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum<br>Leukemia Mononuclear   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon<br>Leukemia Mononuclear   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum  | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum<br>Leukemia Mononuclear  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum<br>Leukemia Mononuclear   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver<br>Hepatocellular Adenoma<br>Leukemia Mononuclear<br>Sarcoma, Metastatic, Uncertain Primary Site | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  |   |   |   |   | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |
| Mesentery  | + |   | + |   |   |   |   |   | + |   |   |   |   |   | + | + |   |   |   | + |   |   | + |   |   |
| Pancreas<br>Leukemia Mononuclear   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>Control   | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | ANIMAL ID | females<br>(cont...) |   |   |   |  |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|---|---|---|--|
|  | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>5<br>5<br>1 | 0<br>7<br>2<br>4 | 0<br>6<br>6<br>6 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>2<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>2<br>5 | 0<br>7<br>1<br>8 | 0<br>6<br>7<br>4 | 0<br>7<br>7<br>1 | 0<br>7<br>7<br>1 | 0<br>7<br>3<br>2 | 0<br>5<br>4<br>7 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>6<br>6<br>1 | 0<br>6<br>8<br>7 | 0<br>6<br>9<br>8 | 0<br>7<br>3<br>1 | 0<br>5<br>9<br>2 |                  |           |                      |   |   |   |  |
|  | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 |           |                      |   |   |   |  |
| Salivary Glands  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         |                      |   |   |   |  |
| Stomach, Forestomach<br>Leukemia Mononuclear   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    |   |   |   |  |
| Stomach, Glandular<br>Leukemia Mononuclear   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    |   |   |   |  |
| Tongue<br>Squamous Cell Carcinoma  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      | + | X |   |  |
| <b>CARDIOVASCULAR SYSTEM</b>   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |   |   |   |  |
| Blood Vessel<br>Leiomyosarcoma   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |   | + | X |  |
| Heart<br>Leukemia Mononuclear  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | + | + |   |  |
| <b>ENDOCRINE SYSTEM</b>  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |   |   |   |  |
| Adrenal Cortex<br>Adenoma<br>Carcinoma<br>Leukemia Mononuclear<br>Bilateral, Adenoma | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | + | + | + |  |
| Adrenal Medulla<br>Leukemia Mononuclear<br>Pheochromocytoma Malignant                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    | + | + | + |  |

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>Control | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | females<br>(cont...) |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|
|                                    | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>5<br>5<br>1 | 0<br>7<br>2<br>4 | 0<br>6<br>6<br>6 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>5 | 0<br>7<br>3<br>1 | 0<br>6<br>7<br>8 | 0<br>7<br>2<br>4 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>1 | 0<br>5<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>3 | 0<br>6<br>3<br>3 | 0<br>6<br>3<br>3 | 0<br>6<br>8<br>1 | 0<br>6<br>9<br>7 | 0<br>7<br>3<br>8 | 0<br>5<br>3<br>1 | 0<br>7<br>9<br>2 |                  |                      |
| ANIMAL ID                          | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>0 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>1 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 | 0<br>0<br>1<br>2 |                      |
| Islets, Pancreatic                 | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                      |
| Parathyroid Gland                  | M                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                      |
| Pituitary Gland                    | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                      |
| Leukemia Mononuclear               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |
| Pars Distalis, Adenoma             |                  |                  | X                | X                | X                |                  | X                |                  | X                | X                |                  |                  | X                | X                | X                |                  | X                |                  | X                | X                | X                | X                | X                | X                | X                |                      |
| Pars Distalis, Carcinoma           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |
| Thyroid Gland                      | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                      |
| C-cell, Adenoma                    |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |
| <b>GENERAL BODY SYSTEM</b>         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |
| NONE                               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |
| <b>GENITAL SYSTEM</b>              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |
| Clitoral Gland                     | +                | M                | +                | +                | +                | +                | +                | +                | M                | M                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                      |
| Adenoma                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                      |
| Carcinoma                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |
| Ovary                              | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                      |
| Granulosa-Theca Tumor Malignant    | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |
| Leukemia Mononuclear               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |
| Sertoli Cell Tumor Malignant       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |
| Uterus                             | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                |                      |
| Leukemia Mononuclear               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                      |
| Polyp Stromal                      |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  | X                |                  |                  | X                |                  |                      |

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

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

Bilateral, Polyp Stromal X

**HEMATOPOIETIC SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear                        |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Deep Cervical, Leukemia Mononuclear         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Deep Cervical, Lymphoma Malignant           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreatic, Leukemia Mononuclear            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 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 | + |
| 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 | M |
| Leukemia Mononuclear                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lymph Node, Mediastinal                     | + | M | M | M | M | + | + | M | + | + | + | + | M | M | M | + | + | M | + | + | + | + | + | M | M |
| Leukemia Mononuclear                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lymphoma Malignant                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mesenteric                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Lymphoma Malignant                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Spleen                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Thymus                                      | + | + | + | + | M | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |
| Sarcoma, Metastatic, Uncertain Primary Site |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

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

**Date Report Requested:** 12/12/2011  
**Time Report Requested:** 09:47:50  
**First Dose M/F:** 06/06/05 / 06/06/05  
**Lab:** BNW

| FISCHER 344 RATS FEMALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |      |      |                      |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|----------------------|
|                         | 0732        | 0733 | 0751 | 0772 | 0776 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0766 | 0777 | 0777 | 0777 | 0777 | 0775 | 0777 | 0777 | 0773 | 0773 | 0773 | 0773 | 0766 | 0766 |                      | 0766 | 0777 | 0755                 |
| Control                 | ANIMAL ID   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |      |                      |
|                         | 00          | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00                   | 00   | 00   |                      |
|                         | 11          | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11   | 11                   | 11   | 11   |                      |
|                         | 00          | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00   | 00                   | 00   | 00   |                      |
|                         | 11          | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 10   | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 10   | 11   | 12   | 13   | 14   | 15   | 16                   | 17   | 18   | females<br>(cont...) |

**INTEGUMENTARY SYSTEM**

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

**MUSCULOSKELETAL SYSTEM**

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

**NERVOUS SYSTEM**

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

**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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

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

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:50

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> |
|                                | 0732        | 0733 | 0751 | 0774 | 0766 | 0777 | 0777 | 0777 | 0777 | 0777 | 0766 | 0777 | 0777 | 0777 | 0777 | 0755 | 0777 | 0777 | 0777 | 0777 | 0766 | 0766 | 0766 | 0777 | 0755 |                              |
|                                | 0010        | 0001 | 0001 | 0001 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |                              |
| <b>Control</b>                 | ANIMAL ID   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                              |
|                                | 0101        | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 | 0101 |                              |
|                                | 0001        | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 |                              |

Leukemia Mononuclear

SYSTEMIC LESIONS

Multiple Organ  
 Leukemia Mononuclear  
 Lymphoma Malignant

+  
 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  
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 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 | <b>* TOTALS</b> |
|                                |             | 7 | 5 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 |                 |
|                                |             | 3 | 7 | 1 | 5 | 3 | 8 | 3 | 7 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 9 |                 |
| <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 | <b>* TOTALS</b> |
|                                |             | 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 |                 |
|                                |             | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |                 |
|                                |             | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 0 |                 |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                       |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------------|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>             |
| Intestine Large, Cecum<br>Leukemia Mononuclear    | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b><br><b>1</b> |
| Intestine Large, Colon<br>Leukemia Mononuclear    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b><br><b>1</b> |
| Intestine Large, Rectum                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>49</b>             |
| Intestine Small, Duodenum<br>Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b><br><b>1</b> |
| Intestine Small, Ileum<br>Leukemia Mononuclear    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b><br><b>1</b> |
| Intestine Small, Jejunum                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>             |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>             |
| Hepatocellular Adenoma                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>1</b>              |
| Leukemia Mononuclear                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>10</b>             |
| Sarcoma, Metastatic, Uncertain Primary Site       |   |   | X |   |   |   | X |   | X |   |   |   |   | X |   |   |   |   | X |   | X | X | <b>1</b>              |
| Mesentery   | + | + |   |   |   |   | + |   |   |   | + |   |   |   |   |   |   |   |   |   | + |   | <b>13</b>             |
| Pancreas  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | <b>50</b>             |
| Leukemia Mononuclear                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <b>2</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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE      | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|                              | 0731        | 0739  | 0779  | 0766  | 0773  | 0768  | 0773  | 0766  | 0773  | 0766  | 0773  | 0766  | 0773  | 0766  | 0773  | 0766  | 0773  | 0766  | 0773  | 0766  | 0773  | 0766  | 0773  | 0766  | 0773  |          |
| Control                      | ANIMAL ID   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
|                              | 00126       | 00127 | 00128 | 00129 | 00130 | 00131 | 00132 | 00133 | 00134 | 00135 | 00136 | 00137 | 00138 | 00139 | 00140 | 00141 | 00142 | 00143 | 00144 | 00145 | 00146 | 00147 | 00148 | 00149 | 00150 |          |
| Salivary Glands              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Stomach, Forestomach         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Leukemia Mononuclear         |             |       |       | X     |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |
| Stomach, Glandular           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Leukemia Mononuclear         |             |       |       | X     |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |
| Tongue                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Squamous Cell Carcinoma      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| <b>CARDIOVASCULAR SYSTEM</b> |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Blood Vessel                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Leiomyosarcoma               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Heart                        | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Leukemia Mononuclear         |             |       |       | X     |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       | X     |       | X     |       |       | 3        |
| <b>ENDOCRINE SYSTEM</b>      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Adrenal Cortex               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Adenoma                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Carcinoma                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Leukemia Mononuclear         |             |       |       | X     |       |       |       |       | X     |       |       |       | X     |       |       |       |       |       | X     |       | X     |       | X     |       |       | 8        |
| Bilateral, Adenoma           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |
| Adrenal Medulla              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |
| Leukemia Mononuclear         |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       | X     |       | X     |       |       | 5        |
| Pheochromocytoma 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE         | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |    |  |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|----|--|
|                                 | 0731        | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 |          |    |  |
| Control                         | ANIMAL ID   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |    |  |
|                                 | 0016        | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040     |    |  |
| Islets, Pancreatic              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50 |  |
| Parathyroid Gland               | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 49 |  |
| Pituitary Gland                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50 |  |
| Leukemia Mononuclear            |             |      |      | X    |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 2  |  |
| Pars Distalis, Adenoma          | X           | X    | X    |      | X    | X    | X    |      | X    |      |      | X    |      |      | X    | X    | X    | X    | X    |      |      |      |      |      | X        | 32 |  |
| Pars Distalis, Carcinoma        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 1  |  |
| Thyroid Gland                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50 |  |
| C-cell, Adenoma                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 3  |  |
| <b>GENERAL BODY SYSTEM</b>      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |    |  |
| NONE                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |    |  |
| <b>GENITAL SYSTEM</b>           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |    |  |
| Clitoral Gland                  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 47 |  |
| Adenoma                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      | X    |          | 4  |  |
| Carcinoma                       |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 1  |  |
| Ovary                           | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50 |  |
| Granulosa-Theca Tumor Malignant |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 1  |  |
| Leukemia Mononuclear            |             |      |      | X    |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |          | 3  |  |
| Sertoli Cell Tumor Malignant    |             |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 1  |  |
| Uterus                          | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50 |  |
| Leukemia Mononuclear            |             |      |      | X    |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 2  |  |
| Polyp Stromal                   | 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   | * TOTALS |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|----------|
|                         | 0731        | 0739 | 0779 | 0765 | 0773 | 0768 | 0776 | 0761 | 0779 | 0766 | 0774 | 0769 | 0777 | 0762 | 0775 | 0760 | 0778 | 0764 | 0772 | 0767 | 0770 | 0763 | 0771 |   |          |
| Control                 | 001         | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 001  | 6 |          |

Bilateral, Polyp Stromal

1

**HEMATOPOIETIC SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear                        |   |   |   | X |   |   |   | X |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   | X | 6  |
| Lymph Node                                  |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Deep Cervical, Leukemia Mononuclear         |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Deep Cervical, Lymphoma Malignant           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreatic, Leukemia Mononuclear            |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| 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 | 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 | 2  |
| Leukemia Mononuclear                        |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Lymph Node, Mediastinal                     | + | + | + | + | + | + | + | + | + | + | M | + | + | + | M | + | M | M | M | M | + | + | + | + | 33 |
| Leukemia Mononuclear                        |   |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   | X |   | X | X | 8  |
| Lymphoma Malignant                          |   |   |   | X |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   | 1  |
| Lymph Node, Mesenteric                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 9  |
| Lymphoma Malignant                          |   |   |   | X |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   |   | X |   | X | X | 1  |
| Spleen                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 10 |
| Thymus                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 46 |
| Leukemia Mononuclear                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | X |   | X | X | 8  |
| Sarcoma, Metastatic, Uncertain Primary Site |   |   |   | X |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   |   | X |   | X | X | 1  |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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M .. Missing tissue  
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

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

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 |   |   |   |   |   |   |   |   |   |   |   |   | 11 |
| Skin                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Basal Cell Adenoma                      |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Keratoacanthoma                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Subcutaneous Tissue, Fibroma            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Subcutaneous Tissue, Lymphoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE                                 | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |    |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|
|   | 0731        | 0739  | 0779  | 0766  | 0773  | 0768  | 0776  | 0763  | 0771  | 0766  | 0774  | 0769  | 0777  | 0762  | 0775  | 0770  | 0778  | 0764  | 0772  | 0767  | 0774  | 0771  | 0769  | 0766  |          |    |
| Control   | ANIMAL ID   |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    |
|   | 00126       | 00127 | 00128 | 00129 | 00130 | 00131 | 00132 | 00133 | 00134 | 00135 | 00136 | 00137 | 00138 | 00139 | 00140 | 00141 | 00142 | 00143 | 00144 | 00145 | 00146 | 00147 | 00148 | 00149 | 00150    |    |
| Larynx  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50 |
| Lung  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50 |
| Alveolar/Bronchiolar Adenoma                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Leukemia Mononuclear                                    |             |       |       | X     |       |       |       | X     |       | X     |       |       |       | X     |       |       |       |       |       | X     |       | X     |       | X     |          | 9  |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Sarcoma, Metastatic, Uncertain Primary Site             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |          | 1  |
| Nose  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50 |
| Leukemia Mononuclear                                    |             |       |       |       |       |       |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2  |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Trachea   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50 |
| <b>SPECIAL SENSES SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    |
| Eye   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50 |
| Leukemia Mononuclear                                    |             |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Lymphoma Malignant                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Harderian Gland   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50 |
| Leukemia Mononuclear                                    |             |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| <b>URINARY SYSTEM</b>                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    |
| Kidney  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50 |
| Leukemia Mononuclear                                    |             |       |       | X     |       |       |       | X     |       | X     |       |       |       | X     |       |       |       |       |       |       |       | X     |       | X     |          | 8  |
| Urinary Bladder   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>Control | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|                                    | 0731        | 0759 | 0779 | 0766 | 0773 | 0768 | 0776 | 0763 | 0771 | 0765 | 0774 | 0762 | 0770 | 0764 | 0772 | 0767 | 0775 | 0769 | 0773 | 0771 | 0777 | 0775 | 0776 | 0769 |          |
| ANIMAL ID                          | 001         | 002  | 003  | 004  | 005  | 006  | 007  | 008  | 009  | 010  | 011  | 012  | 013  | 014  | 015  | 016  | 017  | 018  | 019  | 020  | 021  | 022  | 023  | 024  |          |
|                                    | 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    |          |
|                                    | 2           | 2    | 2    | 2    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    |          |
|                                    | 6           | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    |          |
|                                    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |

Leukemia Mononuclear

X

1

**SYSTEMIC LESIONS**

Multiple Organ  
 Leukemia Mononuclear  
 Lymphoma Malignant

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear |   |   |   | X |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   | X |   | X |   | 10 |
| Lymphoma 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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

|                                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                              |
|--------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------------------------------|
| <b>FISCHER 344 RATS FEMALE</b> | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                              |
|                                | 0732        | 0733 | 0735 | 0771 | 0772 | 0772 | 0774 | 0777 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 |                              |
| <b>25 ppm</b>                  | ANIMAL ID   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | <b>females<br/>(cont...)</b> |
|                                | 0030        | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 |                              |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum  | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon  | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum<br>Leiomyosarcoma, Metastatic, Vagina | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum  | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum                                      | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver<br>Leukemia Mononuclear                                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | X | + | + |
| Mesentery   |   | + |   | + | + |   |   |   |   |   | + | + |   |   | + | + |   |   |   |   |   | + | + |   | + |
| Oral Mucosa<br>Squamous Cell Papilloma                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pancreas<br>Acinus, Adenoma                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Salivary Glands<br>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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 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...) |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------------|----------------------|
|                                   | 0732        | 0733 | 0735 | 0731 | 0733 | 0732 | 0740 | 0762 | 0763 | 0773 | 0773 | 0773 | 0754 | 0771 | 0751 | 0773 | 0733 | 0771 | 0766 | 0773 | 0744 | 0773 | 0773 | 0773 |                           |                      |
|                                   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 000000000000000000000000  |                      |
|                                   | 3           | 3    | 7    | 3    | 3    | 3    | 7    | 1    | 5    | 3    | 3    | 3    | 4    | 1    | 7    | 3    | 3    | 1    | 6    | 3    | 5    | 3    | 0    | 3    | 333333333333333333333333  |                      |
|                                   | 2           | 3    | 5    | 1    | 2    | 2    | 0    | 2    | 3    | 3    | 2    | 2    | 1    | 9    | 1    | 2    | 1    | 7    | 1    | 2    | 1    | 2    | 9    | 3    | 000000000000000000000000  |                      |
|                                   | 1           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 1234567890123456789012345 |                      |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Stomach, Forestomach<br>Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
|  |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Stomach, Glandular<br>Leukemia Mononuclear   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
|  |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**CARDIOVASCULAR SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Blood Vessel<br>Aorta, Schwannoma Malignant, Metastatic,<br>Heart |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Heart<br>Leukemia Mononuclear                                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
|   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Mesothelioma Malignant  |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Schwannoma Malignant  |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |  |

**ENDOCRINE SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Adrenal Cortex<br>Adenoma               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
|   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Carcinoma                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Leukemia Mononuclear                    |   |   | X |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Adrenal Medulla<br>Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
|   |   |   | X |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Pheochromocytoma Benign                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Islets, Pancreatic<br>Carcinoma         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

\* .. 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
Vinylidene chloride  
CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
Time Report Requested: 09:47:50  
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 |
|-------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE |  | 7 | 7 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 4 | 7 | 7 | 7 |
| 25 ppm                  |  | 3 | 3 | 7 | 3 | 3 | 3 | 7 | 1 | 5 | 3 | 3 | 3 | 4 | 1 | 7 | 3 | 3 | 1 | 6 | 3 | 5 | 3 | 0 | 3 |
| ANIMAL ID               |  | 2 | 3 | 5 | 1 | 2 | 0 | 2 | 3 | 3 | 2 | 2 | 1 | 9 | 1 | 2 | 1 | 7 | 1 | 2 | 1 | 2 | 9 | 3 | 2 |
|                         |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |  | 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 |
|                         |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|                         |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |

females  
(cont...)

Parathyroid Gland Adenoma + M M

Pituitary Gland Leukemia Mononuclear +  
Pars Distalis, Adenoma X  
Pars Distalis, Carcinoma X

Thyroid Gland Schwannoma Malignant, Metastatic, Heart + X  
C-cell, Adenoma X  
C-cell, Carcinoma X  
Follicular Cell, Adenoma X

**GENERAL BODY SYSTEM**

Peritoneum +

**GENITAL SYSTEM**

Clitoral Gland Adenoma + + + + M + + + + + + + + + + + + + + + + X X X X

Ovary Granulosa Cell Tumor Benign + X  
Granulosa-Theca Tumor Benign X  
Leukemia Mononuclear X

Uterus Leukemia Mononuclear + 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
|                         | 0732        | 0733 | 0735 | 0731 | 0733 | 0732 | 0740 | 0762 | 0773 | 0773 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 |                      |
| 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 | 0000                 |
| ANIMAL ID               | 3301        | 3302 | 3303 | 3304 | 3305 | 3306 | 3307 | 3308 | 3309 | 3310 | 3311 | 3312 | 3313 | 3314 | 3315 | 3316 | 3317 | 3318 | 3319 | 3320 | 3321 | 3322 | 3323 | 3324 | 3325                 |

Polyp Stromal

X X X

Vagina  
 Granular Cell Tumor Benign  
 Leiomyosarcoma

+  
 X

HEMATOPOIETIC SYSTEM

Bone Marrow  
 Leukemia Mononuclear

+  
 X X X

Lymph Node  
 Deep Cervical, Leukemia Mononuclear  
 Pancreatic, Leukemia Mononuclear

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

Lymph Node, Bronchial  
 Leukemia Mononuclear

M M

Lymph Node, Mandibular

M M

Lymph Node, Mediastinal  
 Carcinoma, Metastatic, Thyroid Gland  
 Leukemia Mononuclear

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

Lymph Node, Mesenteric  
 Leukemia Mononuclear

+  
 X X X X

Spleen  
 Leukemia Mononuclear  
 Schwannoma Malignant, Metastatic, Heart

+  
 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  
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 Vinylidene chloride  
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Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
|                         | 0732        | 0733 | 0735 | 0731 | 0733 | 0732 | 0740 | 0772 | 0763 | 0773 | 0773 | 0751 | 0775 | 0757 | 0773 | 0773 | 0766 | 0773 | 0744 | 0773 | 0773 | 0773 | 0773 | 0773 |      |                      |
| 25 ppm                  | 0030        | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 | 0030 |                      |
|                         | 12          | 23   | 34   | 45   | 56   | 67   | 78   | 89   | 00   | 01   | 02   | 03   | 04   | 05   | 06   | 07   | 08   | 09   | 10   | 11   | 12   | 13   | 14   | 15   | 16   |                      |

Thymus + + + + + + + + + + + M I + + + M + + + + M + +  
 Leukemia Mononuclear X  
 Thymoma Benign

**INTEGUMENTARY SYSTEM**

Mammary Gland +  
 Carcinoma, Multiple X  
 Fibroadenoma X  
 Fibroadenoma, Multiple X  
 Leukemia Mononuclear X  
 Schwannoma Malignant, Metastatic, Heart X  
 Skin +  
 Basal Cell Adenoma  
 Subcutaneous Tissue, Fibroma  
 Subcutaneous Tissue, Neural Crest Tumor  
 Subcutaneous Tissue, Schwannoma Malignant

**MUSCULOSKELETAL SYSTEM**

Bone +  
 Osteoma  
 Skeletal Muscle + +  
 Mesothelioma Malignant X  
 Schwannoma Malignant, Metastatic, Heart X

**NERVOUS SYSTEM**

Brain +

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:50

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

Lab: BNW

| DAY ON TEST                                     |  | FISCHER 344 RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |   |
|---|--|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|---|
|   |  | 0732                    | 0733 | 0675 | 0773 | 0773 | 0773 | 0747 | 0767 | 0767 | 0773 | 0773 | 0773 | 0575 | 0775 | 0775 | 0773 | 0773 | 0773 | 0676 | 0777 | 0477 | 0777 | 0777 | 0777 | 0777 |                      |   |
| ANIMAL ID                                       |  | 0030                    | 0033 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 0050 | 0051 | 0052 | 0053 | 0054 | 0055 | 0056                 |   |
| Carcinoma, Metastatic, Pituitary Gland          |  |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      | X |
| Leukemia Mononuclear                            |  |                         |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |
| Oligodendroglioma Benign                        |  |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |
| <b>RESPIRATORY SYSTEM</b>                       |  |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |
| Larynx  |  | +                       | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |   |
| Schwannoma Malignant, Metastatic, Heart         |  |                         |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |
| Lung  |  | +                       | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |   |
| Leukemia Mononuclear                            |  |                         |      | X    |      |      |      | X    |      |      |      | X    | X    |      |      |      |      |      |      |      |      | X    |      |      |      |      |                      |   |
| Mesenchymal Tumor Malignant, Metastatic, Kidney |  |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |
| Mesothelioma Malignant                          |  |                         |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |
| Schwannoma Malignant, Metastatic, Heart         |  |                         |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |
| Nose  |  | +                       | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |   |
| Leukemia Mononuclear                            |  |                         |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |
| Pleura  |  |                         |      |      |      |      |      |      |      |      |      | +    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |
| Mesothelioma Malignant                          |  |                         |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |
| Trachea   |  | +                       | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |   |
| Schwannoma Malignant, Metastatic, Heart         |  |                         |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |
| <b>SPECIAL SENSES SYSTEM</b>                    |  |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |
| Eye   |  | +                       | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |   |
| Leukemia Mononuclear                            |  |                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |
| Harderian Gland                                 |  | +                       | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    |   |

\* .. 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 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 | 0 | 0 | 0 | <b>females<br/>(cont...)</b> |
| <b>FISCHER 344 RATS FEMALE</b> | DAY ON TEST   | 7 | 7 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 |                              |
|                                | <b>25 ppm</b> | 3 | 3 | 7 | 3 | 3 | 3 | 7 | 1 | 5 | 3 | 3 | 3 | 4 | 1 | 7 | 3 | 3 | 1 | 6 | 3 | 5 | 3 | 0 | 3 | 3 | 3 | 3 |                              |
|                                | ANIMAL ID     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                              |
|                                |               | 0 | 0 | 0 | 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 |                              |
|                                |               | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |                              |
|                                |               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |   |                              |

Schwannoma Malignant, Metastatic, Heart X

**URINARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear                    |   |   | X |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mesenchymal Tumor Malignant             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Schwannoma Malignant, Metastatic, Heart |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leiomyosarcoma, Metastatic, Vagina      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**SYSTEMIC LESIONS**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Multiple Organ         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear   |   |   | 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  
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M .. Missing tissue  
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Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | 48 |
| Intestine Large, Colon                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Rectum                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leiomyosarcoma, Metastatic, Vagina      |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |    |
| Intestine Small, Duodenum               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum                  | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Small, Jejunum                | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Liver                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear                    |   |   |   | X |   | X |   |   |   |   |   |   |   |   | X |   | X |   |   |   | X |   |   | 11 |
| Mesentery                               | + |   | + |   |   | + |   | + | + | + |   | + |   |   |   | + |   |   |   |   | + |   |   | 20 |
| Oral Mucosa                             |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Squamous Cell Papilloma                 |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Pancreas                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Acinus, Adenoma                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Salivary Glands                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Schwannoma Malignant, Metastatic, Heart |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>25 ppm   | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |   |                   |  |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|---|-------------------|--|
|   | 0661        | 0733  | 0732  | 0533  | 0733  | 0733  | 0733  | 0733  | 0683  | 0663  | 0533  | 0663  | 0663  | 0663  | 0733  | 0733  | 0733  | 0663  | 0663  | 0663  |          | 0733  | 0733  | 0733  |   |                   |  |
| ANIMAL ID   | 00326       | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | 00351 | 00352 | 00353 | 00354 | 00355 | 00356    | 00357 | 00358 | 00359 |   |                   |  |
| Stomach, Forestomach<br>Leukemia Mononuclear                                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | X        | +     | +     | +     | + | 50<br>2           |  |
| Stomach, Glandular<br>Leukemia Mononuclear                                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | + | 50<br>1           |  |
| <b>CARDIOVASCULAR SYSTEM</b>  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |   |                   |  |
| Blood Vessel<br>Aorta, Schwannoma Malignant, Metastatic,<br>Heart               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |   | 1<br>1            |  |
| Heart<br>Leukemia Mononuclear<br>Mesothelioma Malignant<br>Schwannoma Malignant | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | X        | +     | +     | +     | + | 50<br>3<br>1<br>1 |  |
| <b>ENDOCRINE SYSTEM</b>   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |   |                   |  |
| Adrenal Cortex<br>Adenoma<br>Carcinoma<br>Leukemia Mononuclear                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | + | 50<br>3<br>1<br>8 |  |
| Adrenal Medulla<br>Leukemia Mononuclear<br>Pheochromocytoma Benign              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | X     | +     | +     | + | 50<br>5<br>5      |  |
| Islets, Pancreatic<br>Carcinoma   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | + | 50<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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>25 ppm                     | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |      |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|------|
|   | 0661        | 0673  | 0673  | 0675  | 0677  | 0677  | 0677  | 0677  | 0677  | 0668  | 0666  | 0656  | 0666  | 0666  | 0666  | 0666  | 0677  | 0677  | 0677  | 0666  |          | 0666  | 0666  | 0677  | 0677  | 0677 |
| ANIMAL ID   | 00326       | 00337 | 00332 | 00335 | 00331 | 00331 | 00331 | 00331 | 00331 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345    | 00346 | 00347 | 00348 | 00349 |      |
| Parathyroid Gland Adenoma                             | +           | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | M     | +     | 461   |      |
| Pituitary Gland Leukemia Mononuclear                  | +           | +     | I     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 495   |      |
| Pars Distalis, Adenoma                                | X           | X     |       | X     | X     | X     | X     |       |       |       | X     | X     | X     | X     | X     |       | X     | X     | X     | X     | X        |       | X     | X     | 362   |      |
| Pars Distalis, Carcinoma                              |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 2     |      |
| Thyroid Gland Schwannoma Malignant, Metastatic, Heart | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 501   |      |
| C-cell, Adenoma                                       |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |          |       |       |       | 4     |      |
| C-cell, Carcinoma                                     |             |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | X     |       |          |       |       | X     | 6     |      |
| Follicular Cell, Adenoma                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | X     |       | 2     |      |
| <b>GENERAL BODY SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |      |
| Peritoneum  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1     |      |
| <b>GENITAL SYSTEM</b>                                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |      |
| Clitoral Gland Adenoma                                | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +        | +     | +     | +     | 488   |      |
| Ovary Granulosa Cell Tumor Benign                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 501   |      |
| Granulosa-Theca Tumor Benign                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1     |      |
| Leukemia Mononuclear                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |          | X     |       |       | 5     |      |
| Uterus Leukemia Mononuclear                           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 501   |      |

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>25 ppm       | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |      |  |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|------|--|
|   | 0661        | 0733  | 0732  | 0533  | 0733  | 0733  | 0733  | 0733  | 0668  | 0663  | 0535  | 0662  | 0663  | 0666  | 0666  | 0773  | 0773  | 0773  | 0666  | 0666  |          | 0667  | 0773  | 0773  | 0773 |  |
| ANIMAL ID                               | 00326       | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 | 00350 | 00351 | 00352 | 00353 | 00354 | 00355 | 00356    | 00357 | 00358 | 00359 |      |  |
| Polyp Stromal                           |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       | X     | X     |       | X     | X        |       | X     |       | 9    |  |
| Vagina                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 2    |  |
| Granular Cell Tumor Benign              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1    |  |
| Leiomyosarcoma                          |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |          |       |       |       | 1    |  |
| <b>HEMATOPOIETIC SYSTEM</b>             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |  |
| Bone Marrow                             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50   |  |
| Leukemia Mononuclear                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     | X     |       |       | X        |       |       |       | 6    |  |
| Lymph Node                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | +     |       |       |       |          | +     |       |       | 2    |  |
| Deep Cervical, Leukemia Mononuclear     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | X     |       |       | 1    |  |
| Pancreatic, Leukemia Mononuclear        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |          |       |       |       | 1    |  |
| Lymph Node, Bronchial                   | M           | M     | M     | M     | M     | +     | M     | M     | M     | M     | M     | M     | M     | M     | +     | +     | M     | M     | M     | +     | +        | M     | M     | M     | 7    |  |
| Leukemia Mononuclear                    |             |       |       |       |       | X     |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |          | X     |       |       | 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     | 0    |  |
| Lymph Node, Mediastinal                 | M           | M     | M     | +     | M     | +     | +     | +     | +     | M     | +     | M     | +     | M     | +     | M     | +     | +     | +     | M     | M        | +     | +     | +     | 26   |  |
| Carcinoma, Metastatic, Thyroid Gland    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1    |  |
| Leukemia Mononuclear                    |             |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |          |       |       | 5     |      |  |
| Lymph Node, Mesenteric                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50    |      |  |
| Leukemia Mononuclear                    |             |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       | X     |       | X     |       |       | X        |       |       | 10    |      |  |
| Spleen                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50    |      |  |
| Leukemia Mononuclear                    |             |       |       | X     |       | X     |       |       |       |       |       |       |       |       |       | X     |       | X     |       |       | X        |       |       | 11    |      |  |
| Schwannoma Malignant, Metastatic, Heart |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       | 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| DAY ON TEST | FISCHER 344 RATS FEMALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |      |      |      |      |
|-------------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|
|             | 0661                    | 0673 | 0673 | 0675 | 0677 | 0677 | 0677 | 0677 | 0666 | 0666 | 0655 | 0666 | 0666 | 0666 | 0666 | 0666 | 0677 | 0677 | 0677 | 0666 |          | 0666 | 0666 | 0677 | 0677 | 0677 |
| 25 ppm      | 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 |      |      |
|             |                         | 3326 | 3327 | 3328 | 3329 | 3330 | 3331 | 3332 | 3333 | 3334 | 3335 | 3336 | 3337 | 3338 | 3339 | 3340 | 3341 | 3342 | 3343 | 3344 | 3345     | 3346 | 3347 | 3348 | 3349 |      |

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Thymus               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 45 |
| Leukemia Mononuclear |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   | X |   |   | X |   |   |   |   |   | 5  |
| Thymoma Benign       |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**INTEGUMENTARY SYSTEM**

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

**MUSCULOSKELETAL SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Osteoma                                 |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Skeletal Muscle                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Mesothelioma Malignant                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Schwannoma Malignant, Metastatic, Heart |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**NERVOUS SYSTEM**

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

|                         |  | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |    |    |    |    |
|-------------------------|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|
| FISCHER 344 RATS FEMALE |  | 06          | 07 | 07 | 05 | 07 | 07 | 07 | 07 | 06 | 06 | 05 | 06 | 06 | 06 | 06 | 06 | 07 | 07 | 07 | 06 |          | 06 | 06 | 07 | 07 |
| 25 ppm                  |  | 61          | 33 | 32 | 35 | 31 | 31 | 31 | 89 | 39 | 51 | 39 | 25 | 33 | 94 | 03 | 33 | 33 | 22 | 33 | 19 | 11       | 33 | 33 | 32 |    |
| ANIMAL ID               |  | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       | 00 | 00 | 00 |    |
|                         |  | 33          | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33       | 33 | 33 | 33 |    |
|                         |  | 22          | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44       | 44 | 44 | 55 |    |
|                         |  | 66          | 77 | 88 | 99 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06       | 07 | 08 | 09 |    |

|  |   |   |
|--|---|---|
| Carcinoma, Metastatic, Pituitary Gland | X | 2 |
| Leukemia Mononuclear                   |   | 1 |
| Oligodendroglioma Benign               | X | 1 |

**RESPIRATORY SYSTEM**

|   |   |    |
|---|---|----|
| Larynx  | + | 50 |
| Schwannoma Malignant, Metastatic, Heart         |   | 1  |
| Lung  | + | 50 |
| Leukemia Mononuclear                            |   | 10 |
| Mesenchymal Tumor Malignant, Metastatic, Kidney | X X   | 1  |
| Mesothelioma Malignant                          |   | 1  |
| Schwannoma Malignant, Metastatic, Heart         |   | 1  |
| Nose  | + | 50 |
| Leukemia Mononuclear                            |   | 1  |
| Pleura  |   | 1  |
| Mesothelioma Malignant                          |   | 1  |
| Trachea   | + | 50 |
| Schwannoma Malignant, Metastatic, Heart         |   | 1  |

**SPECIAL SENSES SYSTEM**

|                      |   |    |
|----------------------|---|----|
| Eye                  | + | 49 |
| Leukemia Mononuclear | X   | 1  |
| Harderian Gland      | + | 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |
|-------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
|                         | 06          | 07 | 07 | 05 | 07 | 07 | 07 | 07 | 06 | 06 | 05 | 06 | 06 | 06 | 06 | 06 | 06 | 07 | 07 | 07 | 06 | 06 | 06 | 07 | 07 |          |
| 25 ppm                  | 6           | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 8  | 3  | 5  | 3  | 2  | 3  | 9  | 0  | 3  | 3  | 3  | 1  | 9  | 1  | 3  | 3  | 3  |          |
| ANIMAL ID               | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |          |
|                         | 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           | 2  | 2  | 2  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 5  |          |
|                         | 6           | 7  | 8  | 9  | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 0  |          |

Schwannoma Malignant, Metastatic, Heart

1

**URINARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Kidney                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5  |
| Mesenchymal Tumor Malignant             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Schwannoma Malignant, Metastatic, Heart |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Urinary Bladder                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leiomyosarcoma, Metastatic, Vagina      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Leukemia Mononuclear                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**SYSTEMIC LESIONS**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Multiple Organ         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear   |   |   |   | X |   | X |   |   |   |   |   |   |   |   | X |   | X |   |   | X |   |   |   |   | 11 |
| 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:50

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

Lab: BNW

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

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                                      | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon<br>Leukemia Mononuclear              | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum<br>Adenoma                          | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum                                   | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum<br>Leukemia Mononuclear              | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum                                    | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver<br>Hepatocellular Adenoma<br>Leukemia Mononuclear     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesentery<br>Leukemia Mononuclear<br>Mesothelioma Malignant | + |   | + |   | + |   | + | + |   | + |   | + |   | + |   | + |   | + | + | + |   | + | + |   | + | + | + |   |
| Pancreas<br>Leukemia Mononuclear<br>Mesothelioma Malignant  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 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>5<br>8<br>3 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>2 | 0<br>5<br>6<br>3 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>6<br>3<br>4 | 0<br>6<br>7<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>1 | 0<br>6<br>3<br>3 | 0<br>6<br>7<br>0 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>1 | 0<br>6<br>3<br>3 | 0<br>7<br>3<br>2 | 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>3 | 0<br>7<br>3<br>2 | 0<br>6<br>3<br>3 |           |                      | 0<br>7<br>3<br>2 |
| Salivary Glands  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    |                  |
| Stomach, Forestomach   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    |                  |
| Stomach, Glandular<br>Leukemia Mononuclear   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    |                  |
| <b>CARDIOVASCULAR SYSTEM</b>   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |
| Heart<br>Leukemia Mononuclear  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    |                  |
|  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  | X         |                      |                  |
| <b>ENDOCRINE SYSTEM</b>  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |
| Adrenal Cortex<br>Adenoma<br>Leukemia Mononuclear  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    |                  |
|  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |
|  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |
| Adrenal Medulla<br>Leukemia Mononuclear<br>Pheochromocytoma Benign<br>Pheochromocytoma Malignant<br>Bilateral, Pheochromocytoma Benign | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    |                  |
|  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |
|  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |
|  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |           |                      |                  |
| Islets, Pancreatic<br>Adenoma<br>Carcinoma   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    |                  |
| Parathyroid Gland  | +                | +                | M                | +                | +                | +                | +                | +                | +                | +                | +                | +                | M                | +                | +                | +                | +                | +                | +                | +                | M                | +                | +                | M                | +         |                      |                  |
| Pituitary Gland  | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +         | +                    |                  |

\* .. 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 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...) |      |      |      |      |      |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|------|------|------|
|   | 0583        | 0731 | 0732 | 0563 | 0773 | 0773 | 0664 | 0662 | 0772 | 0773 | 0773 | 0661 | 0666 | 0777 | 0777 | 0773 | 0666 | 0663 | 0773 | 0777 |           |                      | 0777 | 0667 | 0666 | 0776 | 0777 | 0666 |
| Leukemia Mononuclear<br>Pars Distalis, Adenoma  | X           |      |      | X    |      |      |      |      | X    | X    |      |      |      | X    |      | X    | X    |      | X    |      |           | X                    |      |      |      |      |      |      |
| Thyroid Gland<br>C-cell, Adenoma<br>C-cell, Carcinoma   | +           | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    | +    | +    |      |
|   |             |      |      | X    |      |      |      |      |      |      | X    |      |      | X    |      |      |      |      |      | X    | X         |                      |      |      |      |      |      |      |
| <b>GENERAL BODY SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |      |
| Peritoneum<br>Mesothelioma Malignant  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |      |
|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |      |
| <b>GENITAL SYSTEM</b>   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |      |
| Clitoral Gland<br>Adenoma   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | M    | +         | +                    | +    | +    | +    | +    | +    |      |
|   |             |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X         |                      |      |      |      |      |      |      |
| Ovary<br>Granulosa Cell Tumor Malignant<br>Leukemia Mononuclear<br>Mesothelioma Malignant<br>Yolk Sac Carcinoma | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    | +    | +    |      |
|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X         |                      |      |      |      |      |      |      |
|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |      |
| Uterus<br>Polyp Stromal<br>Sarcoma Stromal<br>Endometrium, Carcinoma  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    | +    | +    |      |
|   |             | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |      |
|   |             |      | X    | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |      |
|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |      |
| <b>HEMATOPOIETIC SYSTEM</b>   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |      |      |      |      |      |      |
| Bone Marrow   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    | +    | +    | +    | +    | +    |      |

\* .. 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

|   |  | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | females<br>(cont...)  |                       |                       |                       |                       |                       |                       |
|---|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| FISCHER 344 RATS FEMALE                                 |  | 0<br>5<br>8<br>3      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>5<br>6<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>6<br>3<br>4      | 0<br>6<br>7<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>1      | 0<br>6<br>3<br>3      | 0<br>6<br>7<br>1      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>6<br>3<br>1      | 0<br>6<br>3<br>3      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      |                       | 0<br>6<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>6<br>3<br>2      |                       |                       |
| 50 ppm  |  | 0<br>0<br>5<br>0<br>1 | 0<br>0<br>5<br>0<br>2 | 0<br>0<br>5<br>0<br>3 | 0<br>0<br>5<br>0<br>4 | 0<br>0<br>5<br>0<br>5 | 0<br>0<br>5<br>0<br>6 | 0<br>0<br>5<br>0<br>7 | 0<br>0<br>5<br>0<br>8 | 0<br>0<br>5<br>0<br>9 | 0<br>0<br>5<br>1<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>1<br>1 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>1<br>1 | 0<br>0<br>5<br>2<br>1 | 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>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 |
| Fibroadenoma, Multiple                                  |  |                       |                       |                       |                       |                       | X                     |                       |                       | X                     |                       | X                     |                       | X                     |                       | X                     |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Skin  |  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |
| Keratoacanthoma   |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Subcutaneous Tissue, Fibroma                            |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Subcutaneous Tissue, Sarcoma                            |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| <b>MUSCULOSKELETAL SYSTEM</b>                           |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Bone  |  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |
| Chondroma   |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |
| Skeletal Muscle   |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Mesothelioma Malignant                                  |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Sarcoma   |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| <b>NERVOUS SYSTEM</b>                                   |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Brain   |  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |
| <b>RESPIRATORY SYSTEM</b>                               |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Larynx  |  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |
| Lung  |  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     |
| Alveolar/Bronchiolar Adenoma                            |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Leukemia Mononuclear                                    |  |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       | X                     | X                     |                       |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |
| Sarcoma, Metastatic, Skeletal Muscle                    |  |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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| FISCHER 344 RATS FEMALE<br>50 ppm | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   | ANIMAL ID | females<br>(cont...) |  |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|----------------------|--|
|                                   | 0<br>5<br>8<br>3 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>2 | 0<br>5<br>6<br>3 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>6<br>3<br>4 | 0<br>6<br>7<br>2 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>1 | 0<br>6<br>2<br>1 | 0<br>6<br>7<br>0 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>1 | 0<br>6<br>6<br>3 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>1 | 0<br>7<br>3<br>2 | 0<br>7<br>3<br>3 | 0<br>7<br>3<br>2 |   |           |                      |  |
| Nose                              | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + |           |                      |  |
| Trachea                           | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + |           |                      |  |
| <b>SPECIAL SENSES SYSTEM</b>      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |  |
| Eye                               | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + |           |                      |  |
| Harderian Gland                   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + |           |                      |  |
| Lacrimal Gland                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |  |
| Zymbal's Gland<br>Carcinoma       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |  |
| <b>URINARY SYSTEM</b>             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |  |
| Kidney                            | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + |           |                      |  |
| Leukemia Mononuclear              |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |  |
| Renal Tubule, Adenoma             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | X                |   |           |                      |  |
| Urinary Bladder                   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + |           |                      |  |
| <b>SYSTEMIC LESIONS</b>           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |  |
| Multiple Organ                    | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | + |           |                      |  |
| Leukemia Mononuclear              |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  | X                |                  | X                |                  |                  |                  |                  |                  |                  |                  | X                |                  |   |           |                      |  |
| Mesothelioma Malignant            |                  |                  |                  |                  |                  |                  | X                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |   |           |                      |  |

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 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 FEMALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|                         | 0526        | 0533 | 0668 | 0771 | 0775 | 0776 | 0666 | 0776 | 0777 | 0777 | 0575 | 0773 | 0575 | 0773 | 0773 | 0474 | 0773 | 0773 | 0773 | 0773 | 0474 | 0773 | 0773 | 0773 |          |
| 50 ppm                  | 0026        | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | 0036 | 0037 | 0038 | 0039 | 0040 | 0041 | 0042 | 0043 | 0044 | 0045 | 0046 | 0047 | 0048 | 0049 | 50       |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |               |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------------|
| Esophagus   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50            |
| Intestine Large, Cecum                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48            |
| Intestine Large, Colon<br>Leukemia Mononuclear              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | 48<br>1       |
| Intestine Large, Rectum<br>Adenoma                          | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49<br>1       |
| Intestine Small, Duodenum                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49            |
| Intestine Small, Ileum<br>Leukemia Mononuclear              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | 49<br>2       |
| Intestine Small, Jejunum                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49            |
| Liver<br>Hepatocellular Adenoma<br>Leukemia Mononuclear     | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50<br>1<br>13 |
| Mesentery<br>Leukemia Mononuclear<br>Mesothelioma Malignant |   |   | + |   |   |   |   |   |   | + |   |   |   |   | + | + | + |   | + | + |   |   | + | + | 23<br>1<br>1  |
| Pancreas<br>Leukemia Mononuclear<br>Mesothelioma Malignant  | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | 50<br>4<br>1  |

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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

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 FEMALE<br>50 ppm  | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |      |      |      |                        |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------------------------|------|
|  | 0526        | 0533 | 0568 | 0573 | 0575 | 0577 | 0576 | 0566 | 0577 | 0577 | 0577 | 0575 | 0577 | 0575 | 0577 | 0577 | 0574 | 0577 | 0577 | 0577 |          | 0574 | 0577 | 0577 | 0574 | 0577                   | 0577 |
| ANIMAL ID  | 0052        | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055     | 0055 | 0055 | 0055 | 0055 | 0055                   |      |
| Salivary Glands  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | +    | 50                     |      |
| Stomach, Forestomach   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | +    | 50                     |      |
| Stomach, Glandular<br>Leukemia Mononuclear   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | +    | 50<br>1                |      |
| <b>CARDIOVASCULAR SYSTEM</b>   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |                        |      |
| Heart<br>Leukemia Mononuclear  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | +    | 50<br>9                |      |
| <b>ENDOCRINE SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |                        |      |
| Adrenal Cortex<br>Adenoma<br>Leukemia Mononuclear  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | +    | 50<br>1<br>7           |      |
| Adrenal Medulla<br>Leukemia Mononuclear<br>Pheochromocytoma Benign<br>Pheochromocytoma Malignant<br>Bilateral, Pheochromocytoma Benign | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | +    | 50<br>4<br>1<br>2<br>1 |      |
| Islets, Pancreatic<br>Adenoma<br>Carcinoma   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | +    | 50<br>1<br>1           |      |
| Parathyroid Gland  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | M    | +    | 45                     |      |
| Pituitary Gland  | +           | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | +    | 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>50 ppm           | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |      |      |      |      |      |      |      |      |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|------|------|------|------|------|
|   | 0526        | 0553 | 0668 | 0771 | 0754 | 0771 | 0666 | 0667 | 0771 | 0772 | 0772 | 0551 | 0773 | 0557 | 0777 | 0773 | 0442 | 0773 | 0773 | 0773 |          | 0441 | 0777 | 0773 | 0442 | 0771 | 0773 | 0441 | 0775 | 0773 | 0772 |
| ANIMAL ID                                   | 0052        | 0055 | 0006 | 0007 | 0005 | 0007 | 0006 | 0006 | 0007 | 0007 | 0007 | 0005 | 0007 | 0005 | 0007 | 0007 | 0004 | 0007 | 0007 | 0007 | 0004     | 0007 | 0007 | 0004 | 0007 | 0007 | 0004 | 0007 | 0007 | 0004 |      |
| Leukemia Mononuclear Pars Distalis, Adenoma |             | X    |      | X    |      | X    | X    |      | X    |      | X    | X    | X    |      | X    | X    |      | X    |      | X    |          | X    | X    |      | X    |      | X    |      | X    |      | 3    |
| Thyroid Gland C-cell, Adenoma               | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | I    | +    | +    | +    | +        | +    | +    | +    | +    | +    | +    | +    | +    | 48   |      |
| Thyroid Gland C-cell, Carcinoma             |             |      |      |      |      | X    | X    |      |      |      |      |      |      | X    |      |      |      |      |      |      |          |      |      |      |      |      |      |      |      | 6    |      |
|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |      |      |      |      | 2    |      |
| <b>GENERAL BODY SYSTEM</b>                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |      |      |      |      |      |      |
| Peritoneum Mesothelioma Malignant           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |      |      |      |      |      | 1    |
|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |      |      |      |      |      | 1    |
| <b>GENITAL SYSTEM</b>                       |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |      |      |      |      |      |      |
| Clitoral Gland Adenoma                      | +           | M    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | M    | +    | +    | +    | +    | +    | +    | +    | 45   |      |
|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |      |      |      |      |      | 3    |
| Ovary Granulosa Cell Tumor Malignant        | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | +    | +    | +    | +    | +    | 50   |      |
| Ovary Leukemia Mononuclear                  |             |      |      |      |      |      |      |      |      |      | X    |      |      |      |      | X    |      |      |      |      |          |      |      |      |      |      |      |      |      | 1    |      |
| Ovary Mesothelioma Malignant                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |      |      |      |      | 3    |      |
| Ovary Yolk Sac Carcinoma                    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |      | X    |      |      | 1    |      |
| Uterus Polyp Stromal                        | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | +    | +    | +    | +    | +    | 50   |      |
| Uterus Sarcoma Stromal                      |             |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |      |      |      |      | 4    |      |
| Uterus Endometrium, Carcinoma               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |      |      |      |      | 2    |      |
|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |      |      |      |      | 1    |      |
| <b>HEMATOPOIETIC SYSTEM</b>                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |      |      |      |      |      |      |      |      |
| Bone Marrow                                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | +    | +    | +    | +    | +    | +    | 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>50 ppm   | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |      |           |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|-----------|
|                                     | 0526        | 0533 | 0568 | 0573 | 0575 | 0577 | 0576 | 0566 | 0577 | 0577 | 0577 | 0575 | 0577 | 0575 | 0577 | 0577 | 0574 | 0577 | 0577 | 0577 |          | 0574 | 0577 | 0577      |
| ANIMAL ID                           | 0052        | 0055 | 0058 | 0050 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055     | 0055 | 0055 |           |
| Leukemia Mononuclear                | X           |      |      | X    |      |      | X    | X    |      |      | X    |      |      |      |      |      |      |      |      |      | X        |      |      | <b>8</b>  |
| Lymph Node                          |             |      |      |      |      |      |      |      |      |      |      |      |      |      | +    | +    |      |      |      |      | +        |      |      | <b>4</b>  |
| Deep Cervical, Leukemia Mononuclear |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |          |      |      | <b>1</b>  |
| Pancreatic, Leukemia Mononuclear    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      | X    |          |      |      | <b>2</b>  |
| 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    | <b>4</b>  |
| Leukemia Mononuclear                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | <b>2</b>  |
| 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    | <b>1</b>  |
| Leukemia Mononuclear                |             |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |          |      |      | <b>1</b>  |
| Lymph Node, Mediastinal             | M           | M    | +    | +    | +    | M    | M    | +    | M    | M    | M    | M    | +    | M    | +    | +    | +    | +    | +    | M    | +        | +    | +    | <b>29</b> |
| Leukemia Mononuclear                |             |      | X    | X    | X    |      |      |      | X    | X    |      |      |      |      |      |      |      |      |      |      |          | X    |      | <b>5</b>  |
| Lymph Node, Mesenteric              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | <b>50</b> |
| Leukemia Mononuclear                | X           |      | X    | X    | X    |      |      | X    | X    |      |      |      |      | X    |      |      |      |      | X    |      |          | X    |      | <b>13</b> |
| Spleen                              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | <b>50</b> |
| Leukemia Mononuclear                | X           |      | X    | X    | X    |      |      | X    | X    |      |      |      |      | X    |      |      |      |      | X    |      |          | X    |      | <b>13</b> |
| Mesothelioma Malignant              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | <b>1</b>  |
| Thymus                              | +           | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    | +    | +    | +        | +    | +    | <b>42</b> |
| Leukemia Mononuclear                |             |      | X    | X    |      |      | X    | X    |      |      |      |      |      |      |      |      |      |      |      |      | X        |      |      | <b>6</b>  |
| Thymoma Malignant                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      | <b>1</b>  |
| <b>INTEGUMENTARY SYSTEM</b>         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |           |
| Mammary Gland                       | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | <b>50</b> |
| Carcinoma                           |             |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |          |      |      | <b>2</b>  |
| Fibroadenoma                        |             | X    | X    |      |      |      |      |      | X    |      |      |      | X    | X    | X    | X    |      | X    | X    |      | X        |      |      | <b>21</b> |

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>50 ppm                       | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|   | 0526        | 0553 | 0668 | 0771 | 0754 | 0777 | 0666 | 0677 | 0777 | 0777 | 0575 | 0777 | 0575 | 0777 | 0777 | 0474 | 0777 | 0777 | 0777 | 0474 |          |
| ANIMAL ID   | 0052        | 0055 | 0006 | 0007 | 0005 | 0007 | 0006 | 0007 | 0007 | 0007 | 0005 | 0007 | 0005 | 0007 | 0007 | 0004 | 0007 | 0007 | 0007 | 0004 | 0007     |
| Fibroadenoma, Multiple                                  |             |      |      | X    |      | X    |      |      |      | X    |      | X    |      |      |      | X    |      |      |      |      | 10       |
| Skin  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |
| Keratoacanthoma   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    | 1        |
| Subcutaneous Tissue, Fibroma                            |             |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2        |
| Subcutaneous Tissue, Sarcoma                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      | 1        |
| <b>MUSCULOSKELETAL SYSTEM</b>                           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| Bone  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |
| Chondroma   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |
| Skeletal Muscle   |             |      |      |      |      |      |      |      |      |      |      | +    |      |      |      |      |      | +    |      |      | 3        |
| Mesothelioma Malignant                                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1        |
| Sarcoma   |             |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      | 1        |
| <b>NERVOUS SYSTEM</b>                                   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| Brain   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |
| <b>RESPIRATORY SYSTEM</b>                               |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
| Larynx  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |
| Lung  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | 50       |
| Alveolar/Bronchiolar Adenoma                            | X           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      | 4        |
| Leukemia Mononuclear                                    | X           |      | X    |      | X    |      | X    |      | X    |      |      |      | X    |      |      |      | X    |      |      | X    | 12       |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    | 1        |
| Sarcoma, Metastatic, Skeletal Muscle                    |             |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      | 1        |

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 + .. Tissue examined microscopically  
 X .. Lesion present  
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Experiment Number: 20303 - 05  
 Test Type: CHRONIC  
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 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

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

**ALIMENTARY SYSTEM**

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum           | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum          | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum           | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum         | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hepatocellular Adenoma           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hepatocellular Adenoma, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Leukemia Mononuclear             | X | X | X | X |   | X |   |   |   |   |   | X |   | X | X | X | X |   |   | X | X | X |   | X |   |
| Mesentery                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lymphoma Malignant               |   | + |   | + | + |   |   | + | + |   | + | + | + |   |   | + |   | + | + |   |   |   |   |   | + |
| Oral Mucosa                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |
| Pancreas                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear             | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   |
| Salivary Glands                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

\* .. 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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 Route: RESPIRATORY EXPOSURE WHOLE BODY  
 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE<br>100 ppm  | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |      |      |      |      |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|------|------|
|                                     | 0656        | 0375 | 0773 | 0773 | 0775 | 0777 | 0777 | 0663 | 0552 | 0772 | 0773 | 0665 | 0667 | 0771 | 0773 | 0666 | 0557 | 0771 | 0664 | 0663 |                      | 0667 | 0667 | 0665 | 0663 |
| ANIMAL ID                           | 0070        | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077                 | 0077 | 0077 | 0077 | 0077 |
| Bone Marrow                         | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    | +    | +    | +    | +    |
| Leukemia Mononuclear                | X           | X    | X    |      |      | X    |      |      |      |      |      |      |      | X    |      | X    |      |      |      |      | X                    | X    |      | X    |      |
| Lymph Node                          |             |      |      |      |      |      | +    |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |      |      |      |
| Deep Cervical, Leukemia Mononuclear |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |      |      | +    |
| Pancreatic, Leukemia Mononuclear    |             |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |      |      | X    |
| Renal, Lymphoma Malignant           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |      |      |      |
| 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    |
| Leukemia Mononuclear                | X           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |      |      |      |
| Lymphoma Malignant                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |      |      |      |
| 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    |
| Leukemia Mononuclear                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |      |      |      |
| Lymphoma Malignant                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |                      |      |      |      |      |
| Lymph Node, Mediastinal             | +           | +    | +    | +    | +    | +    | +    | +    | M    | M    | +    | +    | +    | M    | +    | +    | +    | M    | +    | +    | +                    | +    | +    | +    | M    |
| Leukemia Mononuclear                | X           | X    | X    |      |      | X    |      |      |      |      |      |      |      |      | X    | X    | X    |      |      |      | X                    | X    | X    |      | X    |
| Lymph Node, Mesenteric              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    | +    | +    | +    | +    |
| Histiocytic Sarcoma                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |      |      |      |
| Leukemia Mononuclear                | X           | X    | X    | X    |      | X    |      |      |      |      |      |      | X    |      | X    | X    | X    |      |      |      | X                    | X    | X    |      | X    |
| Spleen                              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    | +    | +    | +    | +    |
| Leukemia Mononuclear                | X           | X    | X    | X    |      | X    |      |      |      |      |      |      | X    |      | X    | X    | X    |      |      |      | X                    | X    | X    |      | X    |
| Thymus                              | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | M    | +    | M    | M    | +    | +    | +    | +                    | M    | +    | M    | +    |
| Leukemia Mononuclear                | X           |      | X    |      |      | X    |      |      |      |      |      |      |      |      | X    |      |      |      |      |      | X                    |      |      |      |      |

**INTEGUMENTARY SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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Experiment Number: 20303 - 05  
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 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL  
 Vinylidene chloride  
 CAS Number: 75-35-4

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 Lab: BNW

| FISCHER 344 RATS FEMALE<br>100 ppm       | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|  | 0656        | 0375 | 0773 | 0774 | 0775 | 0776 | 0777 | 0778 | 0665 | 0557 | 0776 | 0777 | 0666 | 0667 | 0776 | 0777 | 0666 | 0557 | 0776 | 0777 | 0666 | 0667 | 0776 | 0777 | 0666 |           |                      |
| Mammary Gland                            | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    |
| Carcinoma                                |             |      |      | X    |      |      | X    |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |           |                      |
| Fibroadenoma                             |             |      | X    | X    | X    | X    |      | X    | X    |      |      |      | X    |      |      | X    | X    |      |      |      | X    | X    | X    | X    |      |           |                      |
| Fibroadenoma, Multiple                   |             |      |      |      |      |      | X    |      |      |      | X    | X    |      |      | X    |      |      |      |      |      |      |      |      |      |      |           |                      |
| Leukemia Mononuclear                     | X           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Skin                                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    |
| <b>MUSCULOSKELETAL SYSTEM</b>            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Bone                                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    |
| <b>NERVOUS SYSTEM</b>                    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Brain                                    | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    |
| Carcinoma, Metastatic, Pituitary Gland   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Leukemia Mononuclear                     | X           |      |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Oligodendroglioma Malignant              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| <b>RESPIRATORY SYSTEM</b>                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Larynx                                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    |
| Lung                                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    |
| Alveolar/Bronchiolar Carcinoma, Multiple |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                      |
| Leukemia Mononuclear                     | X           | X    | X    |      |      | X    |      |      |      |      |      |      | X    | X    | X    | X    |      |      | X    |      | X    |      | X    |      |      |           |                      |
| Nose                                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                    |
| Chondroma                                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |           |                      |
| Leukemia Mononuclear                     | X           |      | X    |      |      | X    |      |      |      |      |      |      |      | X    | X    |      |      |      |      |      |      |      |      |      | X    |           |                      |

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 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| DAY ON TEST  | FISCHER 344 RATS FEMALE |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    | * TOTALS |
|--|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|----------|
|  | 0628                    | 0717  | 0673  | 0773  | 0773  | 0679  | 0772  | 0772  | 0771  | 0773  | 0772  | 0133  | 0676  | 0771  | 0676  | 0774  | 0676  | 0773  | 0576  | 0771  | 0676  | 0676  | 0773  | 0676               |          |
| ANIMAL ID  | 00726                   | 00772 | 00778 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777              |          |
| Leukemia Mononuclear   |                         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1                  |          |
| Stomach, Forestomach<br>Leukemia Mononuclear   | +                       | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50<br>5            |          |
| Stomach, Glandular<br>Leukemia Mononuclear   | +                       | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50<br>4            |          |
| <b>CARDIOVASCULAR SYSTEM</b>   |                         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |          |
| Heart<br>Leukemia Mononuclear  | +                       | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50<br>9            |          |
| <b>ENDOCRINE SYSTEM</b>  |                         |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |          |
| Adrenal Cortex<br>Adenoma<br>Leukemia Mononuclear  | +                       | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50<br>1<br>17      |          |
| Adrenal Medulla<br>Leukemia Mononuclear<br>Pheochromocytoma Benign<br>Bilateral, Pheochromocytoma Benign | +                       | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49<br>13<br>1<br>1 |          |
| Islets, Pancreatic<br>Adenoma  | +                       | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50<br>1            |          |
| Parathyroid Gland  | +                       | +     | +     | +     | +     | M     | +     | +     | +     | I     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 47                 |          |
| Pituitary Gland<br>Leukemia Mononuclear  | +                       | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49<br>9            |          |

\* .. 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>100 ppm  | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |    |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|
|                                     | 0628        | 0717  | 0683  | 0773  | 0773  | 0679  | 0772  | 0772  | 0771  | 0773  | 0773  | 0113  | 0676  | 0773  | 0676  | 0774  | 0676  | 0773  | 0578  | 0773  | 0666  | 0677  | 0676  | 0776  |          |    |
| ANIMAL ID                           | 00726       | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | 00750    |    |
| Pars Distalis, Adenoma              |             | X     | X     | X     |       | X     |       |       | X     |       | X     |       | X     | X     | X     |       |       | X     |       | X     |       | X     |       |       |          | 28 |
| Pars Distalis, Carcinoma            |             |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Pars Distalis, Leukemia Mononuclear |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| Thyroid Gland                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |    |
| C-cell, Adenoma                     |             |       |       | X     |       | X     | X     | X     | X     |       |       |       |       | X     |       | X     |       |       |       |       |       |       |       |       | 11       |    |
| C-cell, Carcinoma                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        |    |
| Follicular Cell, Adenoma            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |    |
| <b>GENERAL BODY SYSTEM</b>          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    |
| Peritoneum                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1  |
| <b>GENITAL SYSTEM</b>               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |    |
| Clitoral Gland                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | 48       |    |
| Adenoma                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     | X     |       |       |       |       |       |       | 4        |    |
| Carcinoma                           |             |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 5        |    |
| Ovary                               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |    |
| Leukemia Mononuclear                |             |       |       | X     |       |       |       |       | X     |       |       |       |       | X     |       |       |       |       | X     | X     |       |       |       | X     | 13       |    |
| Uterus                              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |    |
| Leukemia Mononuclear                |             | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     | X     |       |       |       |       | 4        |    |
| Polyp Stromal                       |             |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       | X     |       | X     |       |       | X     | 8        |    |
| Endometrium, Carcinoma              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |    |
| Vagina                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |    |
| Polyp                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |    |

**HEMATOPOIETIC 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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:50

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

Lab: BNW

| FISCHER 344 RATS FEMALE<br>100 ppm  | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    | * TOTALS |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
|                                     | 0628        | 0717  | 0673  | 0773  | 0773  | 0679  | 0772  | 0772  | 0771  | 0773  | 0773  | 0132  | 0662  | 0771  | 0677  | 0766  | 0773  | 0578  | 0773  | 0667  | 0667  | 0773  | 0676  |    |          |
| ANIMAL ID                           | 00726       | 00777 | 00722 | 00772 | 00773 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 |    |          |
| Bone Marrow                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Leukemia Mononuclear                |             | X     |       |       |       |       |       |       |       | X     |       |       | X     | X     |       |       |       |       |       | X     | X     | X     |       | 17 |          |
| Lymph Node                          | +           |       | +     |       |       |       |       |       |       | +     |       |       |       |       |       |       |       |       |       | +     | +     | +     |       | 9  |          |
| Deep Cervical, Leukemia Mononuclear |             |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       | X     | 3  |          |
| Pancreatic, Leukemia Mononuclear    |             |       | X     |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       | X     | X     | X     |       | 7  |          |
| Renal, Lymphoma Malignant           | X           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     | 1  |          |
| Lymph Node, Bronchial               | +           | +     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | M     | +     | +     | +     | +     | M     | M     | M     | +     | M     | M     | 10 |          |
| Leukemia Mononuclear                |             | X     |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       | X     |       |       | 4     |    |          |
| Lymphoma Malignant                  | X           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 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     | 4  |          |
| Leukemia Mononuclear                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| Lymphoma Malignant                  | X           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |    |          |
| Lymph Node, Mediastinal             | M           | +     | M     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | M     | M     | +     | M     | +     | +     | +     | +     | M     | +     | 38 |          |
| Leukemia Mononuclear                |             | X     |       |       |       |       | X     | X     |       |       |       |       | X     | X     |       |       |       |       | X     | X     | X     |       | X     | 19 |          |
| Lymph Node, Mesenteric              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Histiocytic Sarcoma                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       | 1  |          |
| Leukemia Mononuclear                |             | X     | X     |       |       |       | X     | X     |       |       |       |       | X     | X     |       |       |       |       |       | X     | X     | X     |       | 23 |          |
| Spleen                              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Leukemia Mononuclear                |             | X     | X     |       |       |       | X     | X     |       |       |       |       | X     | X     |       |       |       |       | X     | X     | X     | X     |       | 25 |          |
| Thymus                              | +           | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 42 |          |
| Leukemia Mononuclear                |             | X     |       |       |       |       | X     | X     |       |       |       |       | X     | X     |       |       |       |       | X     | X     |       |       | X     | 13 |          |

INTEGUMENTARY 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

**P04: NEOPLASMS BY INDIVIDUAL ANIMAL**

Vinylidene chloride  
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011  
 Time Report Requested: 09:47:50  
 First Dose M/F: 06/06/05 / 06/06/05  
 Lab: BNW

| FISCHER 344 RATS FEMALE<br>100 ppm       | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
|  | 0628        | 0717  | 0618  | 0703  | 0703  | 0606  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  | 0707  |    |          |
| ANIMAL ID                                | 00726       | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 |    |          |
| Mammary Gland                            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Carcinoma                                |             |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 4  |          |
| 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     |       |       | 14 |          |
| Leukemia Mononuclear                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| Skin                                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| <b>MUSCULOSKELETAL SYSTEM</b>            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| Bone                                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| <b>NERVOUS SYSTEM</b>                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| Brain                                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Carcinoma, Metastatic, Pituitary Gland   |             |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| Leukemia Mononuclear                     |             | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       | X     |       | 5  |          |
| Oligodendroglioma Malignant              |             |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |       | 1  |          |
| <b>RESPIRATORY SYSTEM</b>                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| Larynx                                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Lung                                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Alveolar/Bronchiolar Carcinoma, Multiple |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 1  |          |
| Leukemia Mononuclear                     |             | X     | X     |       |       | X     |       | X     |       |       | X     | X     |       |       |       | X     | X     | X     |       |       |       | X     |       | 21 |          |
| Nose                                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Chondroma                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| Leukemia Mononuclear                     |             |       |       |       |       |       |       |       |       |       | X     | X     |       |       |       |       |       | X     |       |       | X     |       |       | 10 |          |

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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Experiment Number: 20303 - 05  
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 Species/Strain: RATS/F 344/N

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 Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE<br>100 ppm | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    | * TOTALS |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
|                                    | 0628        | 0777  | 0673  | 0773  | 0773  | 0666  | 0777  | 0777  | 0777  | 0777  | 0777  | 0116  | 0677  | 0677  | 0777  | 0677  | 0777  | 0575  | 0776  | 0666  | 0776  | 0667  | 0667  |    |          |
| ANIMAL ID                          | 00726       | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 |    |          |
| Respiratory Epithelium, Adenoma    |             |       |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| Pleura                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| Trachea                            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| <b>SPECIAL SENSES SYSTEM</b>       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| Eye                                | +           | +     | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49 |          |
| Harderian Gland                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Lacrimal Gland                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1  |          |
| <b>URINARY SYSTEM</b>              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| Kidney                             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Leukemia Mononuclear               |             | X     |       |       |       |       | X     |       | X     |       |       |       | X     | X     |       |       |       |       | X     | X     | X     |       | X     | 18 |          |
| Urinary Bladder                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Leukemia Mononuclear               |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       | X     |       |       |       |       | X     | 4  |          |
| <b>SYSTEMIC LESIONS</b>            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |
| Multiple Organ                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |
| Histiocytic Sarcoma                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       | 1  |          |
| Leukemia Mononuclear               |             | X     | X     |       |       |       | X     |       | X     |       |       |       | X     | X     |       |       |       | X     | X     | X     | X     |       | X     | 25 |          |
| Lymphoma Malignant                 | X           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 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