

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

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

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

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

F1\_R2

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

Note: Animals arranged according to days on test.



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

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

**ENDOCRINE SYSTEM**

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

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

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

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
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 Lab: BNW

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

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

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

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 Lab: BNW

FISCHER 344 RATS MALE	DAY ON TEST																								* TOTALS	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Control	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	50	
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	48	
	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	47	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	
	0	0	2	3	3	3	4	4	4	4	4	0	0	1	1	1	1	2	2	3	3	3	4	0	2	50
	3	7	1	0	3	4	0	1	2	8	9	4	8	1	4	7	8	3	8	1	8	9	5	9	0	1

**ALIMENTARY SYSTEM**

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

**CARDIOVASCULAR SYSTEM**

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
 + .. Tissue examined microscopically  
 X .. Lesion present  
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M .. Missing tissue  
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 BLANK .. Not examined microscopically

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

FISCHER 344 RATS MALE Control	DAY ON TEST																								* TOTALS
	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	0729	
ANIMAL ID	0003	0007	0011	0020	0033	0034	0040	0041	0042	0044	0044	0044	0044	0044	0000	0001	0001	0001	0001	0001	0001	0001	0001	0001	1

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

**ENDOCRINE SYSTEM**

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

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

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 Lab: BNW

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

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FISCHER 344 RATS MALE	DAY ON TEST																								* TOTALS		
	079	072	079	072	079	072	079	072	079	072	079	072	079	072	079	072	079	072	079	072	079	072	079	072		079	
Control	ANIMAL ID																										
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000		
	000	000	002	003	003	003	004	004	004	004	004	000	000	001	001	001	001	002	002	003	003	003	004	000	002		
	37	1	0	3	3	4	0	1	2	8	9	4	8	1	4	7	8	3	8	1	8	9	5	9	0		
Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Alveolar/Bronchiolar Adenoma																								X	3		
Osteosarcoma, Metastatic, Bone																									1		
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
<b>SPECIAL SENSES SYSTEM</b>																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
<b>URINARY SYSTEM</b>																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Mesenchymal Tumor Malignant																									1		
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
<b>SYSTEMIC LESIONS</b>																											
Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Leukemia Mononuclear				X	X		X			X			X				X		X				X		17		
Mesothelioma Malignant																									1		

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

ALIMENTARY SYSTEM

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

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 BLANK .. Not examined microscopically

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

Tongue  
 Squamous Cell Papilloma

**CARDIOVASCULAR SYSTEM**

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**ENDOCRINE SYSTEM**

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

**GENERAL BODY SYSTEM**

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

Peritoneum

+

+

**GENITAL SYSTEM**

Epididymis

+ +

Preputial Gland  
Carcinoma

+  
X

Prostate  
Carcinoma, Metastatic, Urinary Bladder

+  
X

Seminal Vesicle  
Carcinoma, Metastatic, Urinary Bladder

+  
X

Testes  
Bilateral, Interstitial Cell, Adenoma  
Interstitial Cell, Adenoma

+  
X X

**HEMATOPOIETIC SYSTEM**

Bone Marrow

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

Lymph Node

+ + + +

Lymph Node, Bronchial  
Carcinoma, Metastatic, Thyroid Gland

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

Lymph Node, Mandibular

M M

Lymph Node, Mediastinal

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

\* .. Total animals with tissue examined microscopically; Total animals with tumor  
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 X .. Lesion present  
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Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

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

Lab: BNW

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |  |
|-----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|--|
|                       | 0729        | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 |          |      |  |
| 25 ppm                | 0000        | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 |          |      |  |
|                       | 0209        | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 | 0209 |          |      |  |
|                       | 0019        | 0015 | 0011 | 0012 | 0026 | 0009 | 0000 | 0001 | 0003 | 0003 | 0004 | 0004 | 0001 | 0001 | 0001 | 0001 | 0002 | 0003 | 0003 | 0004 | 0004 | 0001 | 0002 | 0002 | 0003     | 0004 |  |

**ALIMENTARY SYSTEM**

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

**GENERAL BODY SYSTEM**

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE<br>25 ppm | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|                                 | 0729        | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 |          |
| ANIMAL ID                       | 0009        | 0005 | 0001 | 0002 | 0006 | 0009 | 0000 | 0001 | 0003 | 0007 | 0009 | 0000 | 0004 | 0006 | 0009 | 0005 | 0002 | 0006 | 0000 | 0006 | 0007 | 0007 | 0008 | 0008 | 0003     |
| Peritoneum                      |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2        |

**GENITAL SYSTEM**

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

**HEMATOPOIETIC SYSTEM**

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE<br>25 ppm        | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
|  | 0729        | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 |          | 0729 |
| ANIMAL ID                              | 0009        | 0005 | 0001 | 0002 | 0006 | 0009 | 0000 | 0001 | 0003 | 0007 | 0009 | 0000 | 0004 | 0006 | 0009 | 0005 | 0002 | 0006 | 0000 | 0007 | 0008     |      |
| Lymph Node, Mesenteric                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50   |
| Spleen                                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50   |
| Thymus                                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +        | 43   |
| <b>INTEGUMENTARY SYSTEM</b>            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| Mammary Gland<br>Fibroadenoma          | +           | +    | +    | +    | M    | M    | +    | +    | +    | +    | M    | +    | M    | +    | +    | +    | +    | +    | +    | M    | +        | 29   |
| Skin                                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50   |
| Keratoacanthoma                        |             |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |      |      | X    |      |          | 3    |
| Squamous Cell Papilloma                |             |      |      |      |      |      |      |      |      |      |      |      |      | X    |      |      |      |      |      |      |          | 1    |
| Subcutaneous Tissue, Fibroma           |             |      | X    |      |      |      |      | X    |      |      |      | X    |      |      |      |      |      |      |      | X    |          | 4    |
| Subcutaneous Tissue, Sarcoma           |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 2    |
| <b>MUSCULOSKELETAL SYSTEM</b>          |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| Bone                                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50   |
| Skeletal Muscle                        |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | +    |      | +        | 4    |
| Carcinoma, Metastatic, Urinary Bladder |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 1    |
| <b>NERVOUS SYSTEM</b>                  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| Brain                                  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 50   |
| <b>RESPIRATORY SYSTEM</b>              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |
| Larynx                                 | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | 49   |
| Carcinoma, Metastatic, Thyroid Gland   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 1    |

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

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

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



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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

**ALIMENTARY SYSTEM**

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

**CARDIOVASCULAR SYSTEM**

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

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

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

ENDOCRINE SYSTEM

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

GENERAL BODY SYSTEM

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

**GENITAL SYSTEM**

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

**HEMATOPOIETIC SYSTEM**

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

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

**INTEGUMENTARY SYSTEM**

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

**MUSCULOSKELETAL SYSTEM**

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

**NERVOUS SYSTEM**

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

Spinal Cord +

**RESPIRATORY SYSTEM**

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

**SPECIAL SENSES SYSTEM**

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

**URINARY SYSTEM**

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

**SYSTEMIC LESIONS**

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

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

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



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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE<br>50 ppm         | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |  |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
|   | 0689        | 0698  | 0705  | 0702  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  | 0709  |          |  |
| ANIMAL ID                               | 00423       | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 |          |  |
| Blood Vessel                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |  |
| Heart                                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |  |
| <b>ENDOCRINE SYSTEM</b>                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |  |
| Adrenal Cortex Adenoma                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |  |
| Adrenal Medulla Pheochromocytoma Benign | X           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 5        |  |
| Bilateral, Pheochromocytoma Benign      |             |       |       |       |       |       | X     |       | X     |       |       |       |       |       | X     |       |       |       |       |       |       |       |       |       | 3        |  |
| Islets, Pancreatic Adenoma              | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |  |
| Carcinoma                               |             |       |       |       |       |       |       |       | X     |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |       | 3        |  |
| Parathyroid Gland Adenoma               | +           | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 47       |  |
| Pituitary Gland Pars Distalis, Adenoma  | X           | X     |       |       | X     | X     | X     |       |       | X     | X     | X     | X     |       |       | X     | X     | X     | X     | X     | X     | X     | X     | X     | 49       |  |
| Thyroid Gland C-cell, Adenoma           |             |       |       |       | X     |       |       |       |       |       | X     |       |       | X     |       | X     |       |       |       |       |       |       |       |       | 4        |  |
| C-cell, Carcinoma                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3        |  |
| Follicular Cell, Carcinoma              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 1        |  |

**GENERAL BODY SYSTEM**

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

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

M .. Missing tissue  
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 BLANK .. Not examined microscopically



Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

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

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

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

Lab: BNW

| FISCHER 344 RATS MALE<br>50 ppm                | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    | * TOTALS |    |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|----|
|  | 0689        | 0688  | 0685  | 0672  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  |    |          |    |
| ANIMAL ID                                      | 00423       | 00442 | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 |    |          |    |
| Spleen   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50 |          |    |
| Thymus<br>Carcinoma, Metastatic, Thyroid Gland | +           | +     | +     | M     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | M     | +  | +        | 41 |
| <b>INTEGUMENTARY SYSTEM</b>                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |    |
| Mammary Gland<br>Carcinoma<br>Fibroadenoma     | +           | M     | M     | M     | M     | M     | +     | +     | +     | +     | M     | +     | M     | M     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +  | M        | 24 |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 1  |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 1  |
| Skin   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +  | +        | 49 |
| Keratoacanthoma                                |             |       |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 3  |
| Squamous Cell Papilloma                        |             |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 1  |
| Trichoepithelioma                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |    |          | 2  |
| Subcutaneous Tissue, Fibroma                   |             |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |    |          | 2  |
| Subcutaneous Tissue, Fibroma, Multiple         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X  |          | 1  |
| Subcutaneous Tissue, Schwannoma Malignant      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 1  |
| <b>MUSCULOSKELETAL SYSTEM</b>                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |    |
| Bone   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +  | +        | 50 |
| Skeletal Muscle                                |             |       |       | +     |       |       | +     |       |       |       |       |       |       | +     |       |       |       |       |       |       |       |       |       |    |          | 7  |
| <b>NERVOUS SYSTEM</b>                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          |    |
| Brain  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +  | +        | 50 |
| Granular Cell Tumor Benign                     |             |       |       | X     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 1  |
| Peripheral Nerve                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |          | 1  |

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

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







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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

**CARDIOVASCULAR SYSTEM**

Heart +  
 Fibrous Histiocytoma, Metastatic, Skin X

**ENDOCRINE SYSTEM**

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

**GENERAL BODY SYSTEM**

Peritoneum + +  
 Osteosarcoma, Metastatic, Uncertain Primary Site X

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

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

Tissue NOS

GENITAL SYSTEM

Coagulating Gland

+ +

Epididymis

+ +

Preputial Gland

+ +

Prostate  
Adenoma

+ +

Seminal Vesicle  
Adenoma

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

Testes  
Bilateral, Interstitial Cell, Adenoma  
Interstitial Cell, Adenoma

+  
 X X X X X X X X X X  
 X X X X X X X X X X

HEMATOPOIETIC SYSTEM

Bone Marrow

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

Lymph Node

+ +

Lymph Node, Bronchial

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

Lymph Node, Mandibular

M M

Lymph Node, Mediastinal

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

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

**INTEGUMENTARY SYSTEM**

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

**MUSCULOSKELETAL SYSTEM**

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

**NERVOUS SYSTEM**

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

**RESPIRATORY SYSTEM**

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

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

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



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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE<br>100 ppm | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  | * TOTALS |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|----------|
|                                  | 068         | 069  | 070  | 071  | 072  | 073  | 074  | 075  | 076  | 077  | 078  | 079  | 080  | 081  | 082  | 083  | 084  | 085  | 086  | 087  | 088  | 089  | 090  |  |          |
| ANIMAL ID                        | 0040        | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 | 0066 |  |          |
|                                  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |  |          |

**ALIMENTARY SYSTEM**

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

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

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



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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

Tissue NOS + 1

**GENITAL SYSTEM**

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

**HEMATOPOIETIC SYSTEM**

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE<br>100 ppm                 | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
|  | 068         | 069   | 068   | 069   | 068   | 069   | 068   | 069   | 068   | 069   | 068   | 069   | 068   | 069   | 068   | 069   | 068   | 069   | 068   | 069   |          | 068   | 069   |
| ANIMAL ID  | 00640       | 00664 | 00660 | 00663 | 00661 | 00667 | 00663 | 00664 | 00669 | 00661 | 00665 | 00666 | 00667 | 00662 | 00662 | 00666 | 00660 | 00664 | 00667 | 00660 | 00661    | 00668 | 00660 |
| Larynx   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 49    |
| Lung   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50    |
| Alveolar/Bronchiolar Adenoma                     |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       | X     |       |       |       |       |          |       | 3     |
| Alveolar/Bronchiolar Carcinoma                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |          |       | 1     |
| Carcinoma, Metastatic, Kidney                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1     |
| Fibrous Histiocytoma, Metastatic, Skin           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1     |
| Osteosarcoma, Metastatic, Uncertain Primary Site |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1     |
| Nose   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50    |
| Respiratory Epithelium, Adenoma                  |             |       |       |       |       |       |       | X     | X     |       |       |       |       |       |       |       |       |       | X     |       |          |       | 4     |
| Pleura   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1     |
| Trachea  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 48    |
| <b>SPECIAL SENSES SYSTEM</b>                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |
| Eye  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 49    |
| Harderian Gland                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 49    |
| <b>URINARY SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |
| Kidney   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50    |
| Mesenchymal Tumor Malignant                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1     |
| Renal Tubule, Carcinoma                          |             |       |       |       |       |       |       |       |       |       |       |       | X     |       |       |       |       |       |       |       |          |       | 1     |
| Urinary Bladder                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 50    |

**SYSTEMIC LESIONS**

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

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



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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

ALIMENTARY SYSTEM

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

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

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



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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

**GENITAL SYSTEM**

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

**HEMATOPOIETIC SYSTEM**

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

**INTEGUMENTARY SYSTEM**

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

**MUSCULOSKELETAL SYSTEM**

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

**NERVOUS SYSTEM**

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

**RESPIRATORY SYSTEM**

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

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

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





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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
|                         | 0731        | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | 0753 | 0754 |          | 0755 |
| Control                 | 0040        | 0011 | 0007 | 0005 | 0006 | 0001 | 0005 | 0009 | 0002 | 0006 | 0008 | 0007 | 0008 | 0009 | 0000 | 0000 | 0002 | 0004 | 0008 | 0009 | 0002 | 0004 | 0006 | 0007 | 0008     |      |
|                         | 0014        | 0001 | 0000 | 0001 | 0003 | 0004 | 0004 | 0004 | 0000 | 0000 | 0001 | 0001 | 0001 | 0001 | 0002 | 0003 | 0003 | 0003 | 0003 | 0003 | 0004 | 0004 | 0004 | 0004 | 0004     | 50   |

**CARDIOVASCULAR SYSTEM**

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|
| Blood Vessel   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |
| Leiomyosarcoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |
| Heart          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |

**ENDOCRINE SYSTEM**

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

**GENERAL BODY SYSTEM**

NONE

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|                         | 0731        | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | 0753 | 0754 |          |
| Control                 | 0040        | 0011 | 0007 | 0005 | 0006 | 0001 | 0005 | 0009 | 0002 | 0006 | 0008 | 0007 | 0008 | 0009 | 0000 | 0000 | 0002 | 0004 | 0008 | 0009 | 0002 | 0004 | 0006 | 0007 | 0008     |
|                         | 0014        | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011     |

**GENITAL SYSTEM**

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

**HEMATOPOIETIC SYSTEM**

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

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

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



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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

ALIMENTARY SYSTEM

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

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

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



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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

C-cell, Carcinoma  
 Follicular Cell, Adenoma

X  
 X

**GENERAL BODY SYSTEM**

Peritoneum +

**GENITAL SYSTEM**

Clitoral Gland +  
 Adenoma X

Ovary +  
 Granulosa Cell Tumor Benign  
 Granulosa-Theca Tumor Benign

Uterus +  
 Polyp Stromal X X X X

Vagina +  
 Granular Cell Tumor Benign  
 Leiomyosarcoma X

**HEMATOPOIETIC SYSTEM**

Bone Marrow +

Lymph Node +

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

Lymph Node, Mandibular M

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mediastinal<br>Carcinoma, Metastatic, Thyroid Gland | + | M | + | M | + | M | M | + | M | + | M | M | M | M | + | M | M | + | M | + | + | + | M | M | + |
| Lymph Node, Mesenteric  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen<br>Schwannoma Malignant, Metastatic, Heart               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus<br>Thymoma Benign  | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | M | I | + |

**INTEGUMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland<br>Carcinoma, Multiple      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibroadenoma                              |   |   |   |   |   |   |   | X | X |   |   | X |   |   |   |   | X |   |   | X | X |   |   | X | X |
| Fibroadenoma, Multiple                    |   |   |   | X | X |   | X |   |   | X |   |   |   | X |   |   | X | X |   |   | X |   |   |   |   |
| Schwannoma Malignant, Metastatic, Heart   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basal Cell Adenoma                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Fibroma              |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Neural Crest Tumor   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Subcutaneous Tissue, Schwannoma Malignant |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**MUSCULOSKELETAL SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone<br>Osteoma  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skeletal Muscle<br>Schwannoma Malignant, Metastatic, Heart |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE<br>25 ppm | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |   |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|---|
|                                   | 0731        | 0731 | 0731 | 0731 | 0731 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 | 0732 |          | 0732 |   |
| ANIMAL ID                         | 0011        | 0011 | 0011 | 0011 | 0011 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012 | 0012     |      |   |
| C-cell, Carcinoma                 | X           |      |      |      |      |      |      |      |      |      |      |      |      |      |      | X    | X    |      | X    |      |          | X    | 6 |
| Follicular Cell, Adenoma          |             |      |      |      |      | X    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 2 |

**GENERAL BODY SYSTEM**

Peritoneum 1

**GENITAL SYSTEM**

|                                    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |         |
|------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Clitoral Gland Adenoma             | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>M | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>M | 48<br>8 |
| Ovary Granulosa Cell Tumor Benign  | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | 50<br>1 |
| Ovary Granulosa-Theca Tumor Benign |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1       |
| Uterus Polyp Stromal               | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | 50<br>9 |
| Vagina Granular Cell Tumor Benign  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 2<br>1  |
| Vagina Leiomyosarcoma              |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1       |

**HEMATOPOIETIC SYSTEM**

|                        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |    |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| Bone Marrow            | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | +<br>X | 50 |
| Lymph Node             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 2  |
| Lymph Node, Bronchial  | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | +<br>M | 7  |
| 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  |

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE<br>25 ppm                               | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |                       |   |    |  |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|----|--|
|   | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>1      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>2      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      | 0<br>7<br>3<br>3      |                       | 0<br>7<br>3<br>3      |                       |                       |   |    |  |
| ANIMAL ID   | 0<br>0<br>3<br>1<br>7 | 0<br>0<br>3<br>3<br>0 | 0<br>0<br>3<br>3<br>1 | 0<br>0<br>3<br>3<br>2 | 0<br>0<br>3<br>3<br>3 | 0<br>0<br>3<br>4<br>8 | 0<br>0<br>3<br>0<br>1 | 0<br>0<br>3<br>0<br>5 | 0<br>0<br>3<br>0<br>6 | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>1<br>1 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>4<br>4 | 0<br>0<br>3<br>4<br>4 | 0<br>0<br>3<br>5<br>0 | 0<br>0<br>3<br>0<br>1 | 0<br>0<br>3<br>2<br>2 | 0<br>0<br>3<br>4<br>4 | 0<br>0<br>3<br>7<br>2 | 0<br>0<br>3<br>4<br>3 |   |    |  |
| Lymph Node, Mediastinal<br>Carcinoma, Metastatic, Thyroid Gland | M                     | M                     | +                     | +                     | +                     | +                     | M                     | M                     | +                     | +                     | +                     | +                     | M                     | M                     | +                     | M                     | +                     | +                     | +                     | M                     | +                     | M                     | M                     | +                     | + | 26 |  |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   | 1  |  |
| Lymph Node, Mesenteric  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + | 50 |  |
| Spleen<br>Schwannoma Malignant, Metastatic, Heart               | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + | 50 |  |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   | 1  |  |
| Thymus<br>Thymoma Benign  | +                     | +                     | +                     | +                     | +                     | M                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + | 45 |  |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   | 1  |  |
| <b>INTEGUMENTARY SYSTEM</b>                                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |    |  |
| Mammary Gland<br>Carcinoma, Multiple                            | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + | 50 |  |
|   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   | 1  |  |
| Fibroadenoma  | X                     |                       |                       | X                     |                       |                       | X                     | X                     |                       | X                     |                       |                       | X                     |                       |                       | X                     | X                     |                       |                       |                       |                       | X                     |                       | X                     |   | 18 |  |
| Fibroadenoma, Multiple  |                       |                       | X                     |                       | X                     |                       |                       |                       |                       |                       | X                     | X                     |                       |                       | X                     |                       |                       |                       |                       | X                     | X                     |                       |                       | X                     |   | 16 |  |
| Schwannoma Malignant, Metastatic, Heart                         |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   | 1  |  |
| Skin  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + | 50 |  |
| Basal Cell Adenoma  |                       |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   | 1  |  |
| Subcutaneous Tissue, Fibroma                                    |                       |                       |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   | 2  |  |
| Subcutaneous Tissue, Neural Crest Tumor                         |                       |                       | X                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   | 1  |  |
| Subcutaneous Tissue, Schwannoma Malignant                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | X                     |   | 1  |  |
| <b>MUSCULOSKELETAL SYSTEM</b>                                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   |    |  |
| Bone  | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | +                     | + | 50 |  |
| Osteoma   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   | 1  |  |
| Skeletal Muscle   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |   | 2  |  |
| 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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

**NERVOUS SYSTEM**

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

**RESPIRATORY SYSTEM**

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

**SPECIAL SENSES SYSTEM**

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

**URINARY SYSTEM**

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

|                                |               | 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 | 0 |
|                                | <b>50 ppm</b> | 4           | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 |                      | 7 | 7 |
|                                |               | 2           | 2 | 1 | 1 | 2 | 6 | 6 | 7 | 8 | 0 | 0 | 2 | 3 | 5 | 6 | 7 | 7 | 9 | 1 | 2 | 2                    | 3 |   |
|                                |               | 1           | 3 | 4 | 4 | 6 | 3 | 3 | 9 | 3 | 3 | 6 | 1 | 4 | 9 | 3 | 0 | 2 | 8 | 5 | 6 | 9                    | 1 |   |
|                                |               | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    | 0 |   |
|                                |               | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    | 0 |   |
|                                |               | 5           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5                    | 5 |   |
|                                |               | 4           | 4 | 3 | 3 | 2 | 0 | 2 | 3 | 0 | 3 | 2 | 1 | 0 | 3 | 1 | 1 | 0 | 2 | 4 | 3 | 3                    | 0 |   |
|                                |               | 8           | 2 | 0 | 7 | 6 | 4 | 7 | 9 | 1 | 3 | 5 | 3 | 7 | 2 | 9 | 4 | 8 | 8 | 9 | 5 | 6                    | 2 |   |

**ALIMENTARY SYSTEM**

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

**CARDIOVASCULAR SYSTEM**

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

**ENDOCRINE SYSTEM**

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

**GENERAL BODY SYSTEM**

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

**GENITAL SYSTEM**

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

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

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





Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

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

Lab: BNW

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

Eye +

Harderian Gland +

Lacrimal Gland

Zymbal's Gland  
Carcinoma

URINARY SYSTEM

Kidney +  
Renal Tubule, Adenoma X

Urinary Bladder +

SYSTEMIC LESIONS

Multiple Organ +  
Leukemia Mononuclear X  
Mesothelioma Malignant X

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|                         | 0731        | 0731  | 0731  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  |          |
| 50 ppm                  | 00529       | 00523 | 00533 | 00544 | 00533 | 00505 | 00509 | 00505 | 00511 | 00512 | 00522 | 00522 | 00522 | 00524 | 00505 | 00500 | 00506 | 00500 | 00502 | 00508 | 00508 | 00501 | 00504 | 00506 | 50       |

**ALIMENTARY SYSTEM**

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

**CARDIOVASCULAR SYSTEM**

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|                         | 0731        | 0731  | 0731  | 0731  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  |          |
| 50 ppm                  | 00529       | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 50       |

**ENDOCRINE SYSTEM**

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

**GENERAL BODY SYSTEM**

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

**GENITAL SYSTEM**

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| Clitoral Gland<br>Adenoma | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | M | + | 45<br>3 |
| Ovary                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50      |

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE<br>50 ppm | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|                                   | 0731        | 0731  | 0731  | 0731  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  | 0732  |          |
| ANIMAL ID                         | 00529       | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 | 00529 |          |
|                                   | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 1        |
|                                   | 7           | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 7     | 1        |
|                                   | 3           | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 1        |
|                                   | 1           | 1     | 1     | 1     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 1        |

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

**HEMATOPOIETIC SYSTEM**

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

**INTEGUMENTARY SYSTEM**

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

**ALIMENTARY SYSTEM**

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

**CARDIOVASCULAR SYSTEM**

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

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

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

Heart +

**ENDOCRINE SYSTEM**

Adrenal Cortex Adenoma +  
X

Adrenal Medulla Pheochromocytoma Benign Bilateral, Pheochromocytoma Benign + M +

Islets, Pancreatic Adenoma +

Parathyroid Gland + + + + + + + + + + + + + + + M + + + + + + + + + +

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

**GENERAL BODY SYSTEM**

Peritoneum

**GENITAL SYSTEM**

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

Carcinoma

X

Ovary

+ +

Uterus

+ +

Polyp Stromal

X

X

X

Endometrium, Carcinoma

X

Vagina

+

Polyp

X

**HEMATOPOIETIC SYSTEM**

Bone Marrow

+ +

Lymph Node

+ +

Lymph Node, Bronchial

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

Lymph Node, Mandibular

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

Lymph Node, Mediastinal

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

Lymph Node, Mesenteric

+ +

Spleen

+ +

Thymus

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

**INTEGUMENTARY SYSTEM**

Mammary Gland

+ +

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

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

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



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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

**ALIMENTARY SYSTEM**

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

**CARDIOVASCULAR SYSTEM**

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE<br>100 ppm | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
|                                    | 0704        | 0705  | 0702  | 0707  | 0704  | 0705  | 0701  | 0701  | 0701  | 0701  | 0701  | 0701  | 0701  | 0701  | 0701  | 0701  | 0701  | 0701  | 0701  | 0701  | 0701  | 0701  | 0701  | 0701  |          |       |       |
| ANIMAL ID                          | 00705       | 00703 | 00709 | 00707 | 00701 | 00706 | 00708 | 00705 | 00709 | 00700 | 00709 | 00706 | 00707 | 00701 | 00702 | 00703 | 00703 | 00703 | 00706 | 00704 | 00702 | 00705 | 00705 | 00703 | 00704    | 00704 | 00709 |

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Carcinoma              |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   | 5  |
| Ovary                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Uterus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Polyp Stromal          |   |   |   |   |   |   |   |   |   |   |   | X |   |   | X |   |   |   | X |   | X |   |   |   | X |   |   | 8  |
| Endometrium, Carcinoma |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Vagina                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Polyp                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**HEMATOPOIETIC SYSTEM**

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lymph Node              |   |   |   |   |   | + |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 9  |
| Lymph Node, Bronchial   | M | M | M | + | + | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 10 |
| Lymph Node, Mandibular  | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 4  |
| Lymph Node, Mediastinal | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | M | + | M | + | + | + | + | 38 |
| Lymph Node, Mesenteric  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Spleen                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Thymus                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 42 |

**INTEGUMENTARY SYSTEM**

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma     |   |   | X |   |   |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   | X |   |   |   |   |   |   | 4  |

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

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

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

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

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

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

Vinylidene chloride  
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE<br>100 ppm | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |    | * TOTALS |  |
|------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----------|--|
|                                    | 0704        | 0705   | 0701   | 0702   | 0703   | 0704   | 0705   | 0701   | 0702   | 0703   | 0704   | 0705   | 0701   | 0702   | 0703   | 0704   | 0705   | 0701   | 0702   | 0703   | 0704   | 0705   | 0701   | 0702   |    |          |  |
| ANIMAL ID                          | 007005      | 007003 | 007009 | 007007 | 007001 | 007006 | 007008 | 007005 | 007009 | 007000 | 007009 | 007006 | 007007 | 007001 | 007002 | 007003 | 007004 | 007001 | 007002 | 007003 | 007004 | 007005 | 007001 | 007002 |    |          |  |
| Harderian Gland                    | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50 |          |  |
| Lacrimal Gland                     |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | +      |        | 1  |          |  |
| <b>URINARY SYSTEM</b>              |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |    |          |  |
| Kidney                             | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50 |          |  |
| Urinary Bladder                    | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50 |          |  |
| <b>SYSTEMIC LESIONS</b>            |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |    |          |  |
| Multiple Organ                     | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | 50 |          |  |
| Histiocytic Sarcoma                |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1  |          |  |
| Leukemia Mononuclear               |             | X      |        | X      |        | X      |        | X      |        | X      | X      |        | X      | X      |        | X      | X      |        | X      | X      |        | X      |        |        | 25 |          |  |
| Lymphoma Malignant                 |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1  |          |  |

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

\* .. 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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