

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
CAS Number: 75-35-4

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

F1_R2

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

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

ALIMENTARY SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with tumor
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FISCHER 344 RATS MALE Control	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	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
		6	6	7	7	5	7	7	7	7	7	7	6	7	7	6	6	7	7	3	7	7	6	7	6	7	6	6	6	6

Mesothelioma Malignant

Salivary Glands

Stomach, Forestomach
Mesothelioma Malignant

Stomach, Glandular

Tooth

males
(cont...)

CARDIOVASCULAR SYSTEM

Blood Vessel

Heart

Leukemia Mononuclear

Pericardium, Osteosarcoma, Metastatic, Bone

ENDOCRINE SYSTEM

Adrenal Cortex

Adenoma

Leukemia Mononuclear

Mesothelioma Malignant

Adrenal Medulla

Leukemia Mononuclear

Pheochromocytoma Benign

Pheochromocytoma Malignant

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		DAY ON TEST																				males (cont...)	
FISCHER 344 RATS MALE	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
		6	6	7	7	5	7	7	7	7	7	6	7	7	6	6	7	7	3	7	7		6
Control		7	6	2	3	1	1	2	3	3	0	3	8	1	3	6	2	3	3	6	3	2	
		7	1	9	0	4	2	9	0	1	5	0	6	9	0	9	0	0	7	1	9	9	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	
Islets, Pancreatic Adenoma		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Carcinoma																		X					
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear																							
Pars Distalis, Adenoma		X	X	X	X		X	X	X		X	X	X		X	X	X			X	X	X	
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Adenoma																			X			X	
C-cell, Carcinoma				X																			

GENERAL BODY SYSTEM
 NONE

GENITAL SYSTEM

Epididymis		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mesothelioma Malignant																						
Preputial Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenoma														X								
Carcinoma					X																	
Prostate		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mesothelioma Malignant																						
Seminal Vesicle		+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	A	+	+

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FISCHER 344 RATS MALE	DAY ON TEST																									males (cont...)
	0677	0662	0673	0673	0651	0671	0677	0677	0677	0677	0677	0666	0677	0677	0666	0666	0677	0677	0633	0677	0666	0677	0666	0666		
Control	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
	1234	5678	9012	3456	7890	1234	5678	9012	3456	7890	1234	5678	9012	3456	7890	1234	5678	9012	3456	7890	1234	5678	9012			

Mesothelioma Malignant

Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mesothelioma Malignant																							
Bilateral, Interstitial Cell, Adenoma			X	X		X		X	X	X	X		X	X					X	X		X	X
Interstitial Cell, Adenoma							X					X						X					

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Leukemia Mononuclear						X									X										
Lymph Node							+				+														
Pancreatic, Leukemia Mononuclear						X																			
Lymph Node, Bronchial	M	M	M	M	+	M	M	M	M	M	M	M	M	M	M	+	M	+	M	M	M	+	M	M	
Leukemia Mononuclear																							X		
Osteosarcoma, Metastatic, Bone																		X							
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
Lymph Node, Mediastinal	M	M	+	+	+	+	+	M	+	+	M	M	+	+	M	M	M	+	+	+	M	M	M	M	+
Leukemia Mononuclear						X																			
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear						X		X	X						X							X			
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear						X		X	X						X							X			
Mesothelioma Malignant																									

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

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

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

Brain +

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

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

Mesothelioma Malignant

Urinary Bladder

Mesothelioma Malignant

+ +

SYSTEMIC LESIONS

Multiple Organ

Leukemia Mononuclear

Mesothelioma Malignant

+
 X X X X X

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| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | 04 | 05 | 07 | 06 | 07 | 07 | 05 | 07 | 07 | 05 | 06 | 06 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | 07 | 06 | 07 | 05 | 05 | |
| Control | 09 | 05 | 03 | 03 | 02 | 03 | 09 | 02 | 02 | 06 | 09 | 01 | 03 | 03 | 02 | 02 | 04 | 05 | 03 | 01 | 07 | 02 | 02 | 06 | 50 |
| | 02 | 01 | 00 | 05 | 09 | 00 | 01 | 09 | 09 | 04 | 08 | 04 | 00 | 00 | 09 | 09 | 09 | 05 | 04 | 00 | 07 | 00 | 09 | 02 | 6 |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 0 |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 0 |
| | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 55 | 6 |
| | 67 | 78 | | | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0 |

ALIMENTARY SYSTEM

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

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

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

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

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

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

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| | 04 | 05 | 07 | 06 | 07 | 07 | 05 | 07 | 07 | 05 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | 07 | 06 | 07 | 07 | |
| Control | 09 | 05 | 03 | 03 | 02 | 03 | 09 | 02 | 02 | 06 | 09 | 01 | 03 | 03 | 02 | 02 | 02 | 04 | 05 | 03 | 01 | 07 | 02 | 02 | 06 |
| | 21 | 00 | 00 | 05 | 09 | 00 | 01 | 09 | 04 | 08 | 04 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 02 | 02 | 02 | 02 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 05 | |
| | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Tooth | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Mononuclear | | X | | | | | X | | | | | | | | | | | | | X | | | | 3 | |
| Pericardium, Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Adenoma | | | | | | | X | | | | | X | | | | | | | | | | | | 4 | |
| Leukemia Mononuclear | | X | | | X | | X | | | | | | | X | | | | X | | X | X | | | 8 | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | 1 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Leukemia Mononuclear | | X | | | X | | | | | | | | | X | | | | X | | X | X | | | 7 | |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | X | | | X | | X | | | X | 5 | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | 2 | |

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

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

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

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

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

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

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

| FISCHER 344 RATS MALE
Control | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|--|--|
| | 04 | 05 | 07 | 06 | 07 | 07 | 05 | 07 | 07 | 05 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | 06 | 07 | 07 | 05 | | | |
| | 9 | 5 | 3 | 3 | 2 | 3 | 9 | 2 | 2 | 6 | 9 | 1 | 3 | 3 | 2 | 2 | 2 | 4 | 5 | 3 | 1 | 7 | 2 | 2 | 6 | | |
| | 2 | 1 | 0 | 5 | 9 | 0 | 1 | 9 | 4 | 8 | 4 | 0 | 0 | 0 | 9 | 9 | 9 | 5 | 4 | 0 | 7 | 0 | 9 | 2 | 2 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Bilateral, Interstitial Cell, Adenoma | | | X | | | X | | X | | X | | | | | X | | | | | | X | X | | | 20 | | |
| Interstitial Cell, Adenoma | | X | | | | X | | | X | | | X | X | X | | | | X | X | | | | | X | 12 | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Leukemia Mononuclear | | X | | | X | | X | | | X | X | | | | | | | | | | X | X | | | 9 | | |
| Lymph Node | | | | | | | + | | | + | + | | | | | | | | | + | | | | | 6 | | |
| Pancreatic, Leukemia Mononuclear | | | | | | | X | | | X | X | | | | | | | | | X | | | | | 5 | | |
| Lymph Node, Bronchial | M | + | M | M | + | M | M | M | M | + | M | + | M | M | M | M | M | M | M | M | M | M | M | M | 8 | | |
| Leukemia Mononuclear | | X | | | X | | | | | X | | | | | | | | | | | | | | | 4 | | |
| Osteosarcoma, Metastatic, Bone | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Lymph Node, Mandibular | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 | | |
| Lymph Node, Mediastinal | M | M | + | M | + | M | + | M | + | M | + | M | M | M | + | + | + | M | + | + | + | + | + | + | 28 | | |
| Leukemia Mononuclear | | | | | X | | X | | | X | | | | | X | | | | | X | X | X | | | 8 | | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Leukemia Mononuclear | | X | | | X | X | X | X | | X | X | | | | X | | | X | | X | X | X | | | 16 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Leukemia Mononuclear | | X | | | X | X | X | X | | X | X | | | | X | | | X | | X | X | X | | | 17 | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X | 1 | | |

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|-----------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|
| | 04 | 05 | 07 | 06 | 07 | 07 | 05 | 07 | 07 | 05 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | | 06 | 07 | 07 | 05 |
| Control | 09 | 05 | 03 | 03 | 02 | 03 | 09 | 02 | 02 | 06 | 09 | 01 | 03 | 03 | 02 | 02 | 02 | 04 | 05 | 03 | 01 | 07 | 02 | 02 | 06 |
| | 21 | 00 | 05 | 09 | 00 | 01 | 09 | 04 | 08 | 04 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | |
| | 02 | 02 | 02 | 02 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 05 | |
| | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Thymus | + | + | M | + | + | + | + | + | + | I | + | + | + | M | + | + | + | + | + | + | M | + | + | + | 42 |
| Leukemia Mononuclear | | | | X | | X | | | | X | | | | X | | | | | | X | | | | 5 | |

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-----------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|----------|
| | 04 | 05 | 07 | 06 | 07 | 07 | 05 | 07 | 07 | 05 | 06 | 06 | 07 | 07 | 07 | 07 | 07 | 06 | 06 | 07 | 06 | 07 | 07 | 05 | | |
| Control | 92 | 51 | 30 | 35 | 29 | 30 | 91 | 29 | 29 | 64 | 94 | 64 | 30 | 30 | 99 | 29 | 22 | 45 | 40 | 31 | 70 | 29 | 29 | 62 | | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | |
| | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 55 | | |
| | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 00 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Larynx | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Lung | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | | | 14 |
| Osteosarcoma, Metastatic, Bone | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Nose | + | | | | | | | | | | | | | | | | | | | | | | | | | 49 |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Trachea | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Eye | + | | | | | | | | | | | | | | | | | | | | | | | | | 48 |
| Harderian Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|
| Kidney | + | | | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | | | 11 |
| Mesenchymal Tumor Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

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

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

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

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

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|
| FISCHER 344 RATS MALE | 4 | 5 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 6 | 7 | 7 | 5 | |
| | 9 | 5 | 3 | 3 | 2 | 3 | 9 | 2 | 2 | 6 | 9 | 1 | 3 | 3 | 2 | 2 | 2 | 4 | 5 | 3 | 1 | 7 | 2 | 2 | 6 | |
| | 2 | 1 | 0 | 5 | 9 | 0 | 1 | 9 | 9 | 4 | 8 | 4 | 0 | 0 | 9 | 9 | 9 | 5 | 4 | 0 | 7 | 0 | 9 | 9 | 2 | |
| Control | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | X | 1 | | | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | X | 1 | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | | | X | | | X | X | X | X | | X | X | | | | X | | | X | | X | X | X | | 17 | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | 1 | | |

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

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

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

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

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

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

ALIMENTARY SYSTEM

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

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|--------------------|
| | 0631 | 0661 | 0661 | 0672 | 0663 | 0654 | 0637 | 0677 | 0677 | 0677 | 0666 | 0665 | 0677 | 0677 | 0677 | 0677 | 0677 | 0657 | 0672 | 0677 | 0655 | 0666 | 0677 | 0663 | 0677 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 000000000000000000000000 | |
| | 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 | 000000000000000000000000 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 000000000000000000000000 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 111111111111111111111111 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Stomach, Forestomach
Mesothelioma Malignant | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular
Mesothelioma Malignant | + | + | + | + | + | X | | | | | | | | | | | | | | | | | | | | | |
| Tongue
Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pericardium, Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bilateral, Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
CAS Number: 75-35-4

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

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|------------------------------|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|---|--------------------|
| FISCHER 344 RATS MALE | | 06319 | 06611 | 06672 | 06676 | 06653 | 06737 | 06777 | 06777 | 06777 | 06666 | 06665 | 06777 | 06777 | 06777 | 06777 | 06777 | 06575 | 06772 | 06772 | 06575 | 06665 | 06667 | 06707 | | | |
| 25 ppm | | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | | | |
| ANIMAL ID | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Adenoma | | | | | | | | | | | | | | | | | | | | | X | | | X | |
| Carcinoma | | | | | | | | | X | | | | | | | | | | | | | | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Pars Distalis, Adenoma | X | | X | | X | | | X | | X | X | | X | X | X | | X | X | | X | X | | X | X | X |
| Thyroid Gland | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| C-cell, Adenoma | | | | X | | | | | | | | | | | | X | | | | | | | | | X |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | X |

GENERAL BODY SYSTEM

Peritoneum
 Mesothelioma Malignant

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mesothelioma Malignant | | | | | | X | | | | X | | | | | | X | X | | X | | | X | X | | |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Metastatic, Urinary Bladder | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | X | | | | | | | | | | | X | | | | | | | | |

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0631 | 0661 | 0671 | 0672 | 0673 | 0674 | 0675 | 0676 | 0677 | 0678 | 0679 | 0680 | 0681 | 0682 | 0683 | 0684 | 0685 | 0686 | 0687 | 0688 | | | 0689 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Carcinoma, Metastatic, Urinary Bladder | | | | | | | | X | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | X | | | | | X | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mesothelioma Malignant | | | | | | X | | | | | | X | X | | X | X | | X | | X | | | |
| Bilateral, Interstitial Cell, Adenoma | | | X | | X | | X | X | X | | | X | | | X | X | X | | X | | | | |
| Interstitial Cell, Adenoma | X | X | | | | | | | | | X | | | | X | | | | | | | X | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | X | |
| Leukemia Mononuclear | | X | X | | X | | | | | | | | X | | | | | | X | | X | | |
| Lymph Node | | + | + | | | | | | | | | | | | | | | | | | | + | |
| Pancreatic, Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | X | |
| Renal, Leukemia Mononuclear | | X | X | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Bronchial | M | + | M | + | + | M | M | M | M | M | M | M | M | M | M | M | M | + | M | + | M | + | |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | X | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | X | |
| Leukemia Mononuclear | | X | | | X | | | | | | | | | | | | | | X | | X | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mediastinal | M | M | + | M | M | M | + | + | + | M | + | M | + | + | M | M | M | M | + | + | M | M | |
| Leukemia Mononuclear | | | X | | | | | | | | | | X | | | | | | X | | | + | |

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | |
|-----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|
| | 0631 | 0661 | 0671 | 0681 | 0691 | 0701 | 0711 | 0721 | 0731 | 0741 | 0751 | 0761 | 0771 | 0781 | 0791 | 0801 | 0811 | 0821 | 0831 | 0841 | 0851 | 0861 | 0871 | 0881 | 0891 | | 0901 |
| 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 | 0 | 0 | |
| ANIMAL ID | 0020 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | |

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

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

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

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

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

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

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

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(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 | | | |
| | | 6 | 6 | 6 | 7 | 6 | 5 | 3 | 7 | 7 | 7 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | | 7 | 5 | 6 | 7 | |
| | | 3 | 1 | 1 | 2 | 3 | 4 | 5 | 2 | 2 | 3 | 1 | 6 | 4 | 3 | 2 | 3 | 3 | 1 | 3 | 9 | 2 | 2 | 6 | 5 | 3 | |
| | | 1 | 9 | 1 | 9 | 0 | 3 | 5 | 9 | 9 | 0 | 9 | 8 | 8 | 0 | 9 | 0 | 1 | 1 | 0 | 9 | 9 | 9 | 3 | 6 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

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

SPECIAL SENSES SYSTEM

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

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

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

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

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

| FISCHER 344 RATS MALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0631 | 0661 | 0671 | 0681 | 0691 | 0701 | 0711 | 0721 | 0731 | 0741 | 0751 | 0761 | 0771 | 0781 | 0791 | 0801 | 0811 | 0821 | 0831 | 0841 | 0851 | 0861 | 0871 | 0881 | 0891 | | |
| Eye | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Harderian Gland | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Zymbal's Gland
Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Histiocytic Sarcoma | | | | | | | | | | | | X | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | X | X | | X | | | | | | | | | X | | X | | | | | | X | | X | | X | |
| Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mesothelioma Malignant | | | | | | X | | | | | | | | | | | | X | | | | | | | | | |
| Transitional Epithelium, Carcinoma | | | | | | | X | | | | | | | | | | | X | | | | | | | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Histiocytic Sarcoma | | | | | | | | | | | | X | | | | | | | | | | | | | | X | |
| Leukemia Mononuclear | | X | X | | X | | | | | | | | | X | | X | X | | | | X | | X | | X | X | |
| Mesothelioma Malignant | | | | | | X | | | | X | | | X | | X | X | | X | | | X | | X | X | | | |

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

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

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

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

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

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

ALIMENTARY SYSTEM

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

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

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

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

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

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

| FISCHER 344 RATS MALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--|
| | 0729 | 0731 | 0731 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | 0729 | | |
| ANIMAL ID | 002226 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | X | X | 4 | |
| Pericardium, Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Adenoma | X | | | X | | | | X | X | | | | | | | | | | | | | | | | 4 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | X | X | 7 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | X | X | 6 | |
| Pheochromocytoma Benign | | | | | | | | | X | X | | | | | | | | | | | | | | X | 9 | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Bilateral, Pheochromocytoma Benign | | | | | | | | | X | | | | | | | | | | | | | | | | 2 | |

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

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

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0729 | 0731 | 0739 | 0772 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | 0779 | |
| ANIMAL ID | 0022 | 0022 | 0022 | 0022 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Carcinoma, Metastatic, Urinary Bladder | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Mesothelioma Malignant | | | | | | | | | | X | | | | | | | | | | | | | 3 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mesothelioma Malignant | X | | | | | | | | | X | X | | | | | | | | | | | | 10 |
| Bilateral, Interstitial Cell, Adenoma | X | X | X | X | X | | | | | X | | | | X | | X | | | X | X | X | X | 24 |
| Interstitial Cell, Adenoma | | | | | | | X | X | | | X | | X | | X | | X | | | | | | 11 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | X | | | | | | | | | | | | | X | | | | | X | X | X | 11 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | + | | 4 |
| Pancreatic, Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Renal, Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | X | | 3 |
| Lymph Node, Bronchial | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | + | M | 9 |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | X | | 5 |
| Lymph Node, Mandibular | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 |
| Leukemia Mononuclear | | | | | | | X | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mediastinal | M | + | M | + | M | + | M | + | M | M | + | M | M | M | + | M | M | M | + | + | + | + | 21 |
| Leukemia Mononuclear | | | | | | | X | | | | | | | | X | | | | | X | | | 6 |

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|------|--|
| | 0729 | 0731 | 0739 | 0772 | 0777 | 0779 | 0780 | 0782 | 0783 | 0784 | 0785 | 0786 | 0787 | 0788 | 0789 | 0790 | 0791 | 0792 | 0793 | 0794 | 0795 | 0796 | 0797 | 0798 | | 0799 | |
| ANIMAL ID | 002226 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | | |
| Lymph Node, Mesenteric Histiocytic Sarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Leukemia Mononuclear | | X | | | | | | X | | | | | | | X | X | | | | X | X | | X | | 16 | | |
| Spleen Histiocytic Sarcoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Leukemia Mononuclear | | X | | | | | X | X | | | | | | | X | X | | | | X | X | | X | | 17 | | |
| Mesothelioma Malignant | | | | | | | | | X | | | | | | | | | | | | | | | | 4 | | |
| Thymus Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | M | + | + | + | + | + | + | + | M | 43 | | |
| | | | | | | | | | | | | | | | | | | | | | | | X | X | 6 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Fibroadenoma | M | M | + | M | + | + | + | + | M | + | + | M | M | M | + | + | + | M | M | + | + | + | M | + | M | 29 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Skin Keratoacanthoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | X | | X | X | | | 3 | | |
| Subcutaneous Tissue, Fibroma | | | X | | | | X | | | | | | | | | | | | | | | | | | 1 | | |
| Subcutaneous Tissue, Sarcoma | | | | | | | | | | | | X | | | | | | X | | | | | | | 4 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Skeletal Muscle Carcinoma, Metastatic, Urinary Bladder | | | | | | | | | | | | | | + | | | | | | | | | | | 4 | | |
| Mesothelioma Malignant | | | | | | | | | | | | X | | | | | | | | | | | | | 1 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |

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

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

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

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

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

| FISCHER 344 RATS MALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | 0729 | 0731 | 0739 | 0772 | 0779 | 0780 | 0783 | 0789 | 0790 | 0796 | 0805 | 0806 | 0807 | 0812 | 0813 | 0814 | 0815 | 0816 | 0817 | 0818 | 0819 | 0820 | |
| ANIMAL ID | 00226 | 00007 | 00008 | 00009 | 00010 | 00011 | 00012 | 00013 | 00014 | 00015 | 00016 | 00017 | 00018 | 00019 | 00020 | 00021 | 00022 | 00023 | 00024 | 00025 | 00026 | 00027 | |

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

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

SPECIAL SENSES SYSTEM

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

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

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

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

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

| FISCHER 344 RATS MALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|------------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--|--|
| | 0729 | 0731 | 0732 | 0739 | 0749 | 0770 | 0772 | 0773 | 0779 | 0780 | 0786 | 0787 | 0790 | 0793 | 0794 | 0796 | 0797 | 0798 | 0799 | 0800 | 0801 | 0802 | 0803 | 0804 | | | |
| ANIMAL ID | 002226 | 002227 | 002228 | 002229 | 002230 | 002231 | 002232 | 002233 | 002234 | 002235 | 002236 | 002237 | 002238 | 002239 | 002240 | 002241 | 002242 | 002243 | 002244 | 002245 | 002246 | 002247 | 002248 | 002249 | | | |
| Eye | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Leukemia Mononuclear | | X | | | | | | X | | | | | | | X | | | | | X | X | | X | 14 | | | |
| Renal Tubule, Carcinoma | | | | | | | | | | | | | | X | | | | | | | | | | 2 | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Mesothelioma Malignant | | | | | | | | | | X | | | | | | | | | | | | | | 3 | | | |
| Transitional Epithelium, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Leukemia Mononuclear | | X | | | | | X | X | | | | | | | X | X | | | | X | X | | X | 17 | | | |
| Mesothelioma Malignant | X | | | | | | | | | X | X | | | | | | | | | | | | | 12 | | | |

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

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

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

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

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

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus
Carcinoma, Metastatic, Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + |
| Intestine Large, Cecum
Leukemia Mononuclear
Mesothelioma Malignant | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Intestine Large, Colon
Leukemia Mononuclear | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum
Leukemia Mononuclear | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X |
| Intestine Small, Jejunum
Mesothelioma Malignant | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver
Histiocytic Sarcoma
Leukemia Mononuclear
Mesothelioma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | X | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | X | X | | | X | X | | | | | X | | | | | X | X | |
| | X | | | | | | | | | | | | | | | X | | | | | | | | | |
| Mesentery
Mesothelioma Malignant | + | + | | + | + | + | + | + | | + | + | | | + | + | + | | | | | | | | + | |
| | X | X | | X | X | | | X | | | | | | X | X | | | | | | | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

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

**males
(cont...)**

Bilateral, Pheochromocytoma Benign

X X

Islets, Pancreatic
 Adenoma
 Carcinoma

+
 X
 X

Parathyroid Gland
 Adenoma

+ + + + M +
 X

Pituitary Gland
 Leukemia Mononuclear
 Pars Distalis, Adenoma

+ + + + I +
 X
 X

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

+ + + + I +
 X
 X

GENERAL BODY SYSTEM

Peritoneum
 Mesothelioma Malignant
 Tunica Vaginalis, Mesothelioma Malignant

+ + +
 X X X
 X

GENITAL SYSTEM

Epididymis
 Mesothelioma Malignant

+
 X

Penis

+

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE

50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | |
|---------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | | |
| | 7 | 7 | 6 | 6 | 7 | 5 | 6 | 6 | 7 | 6 | 5 | 7 | 7 | 6 | 7 | 7 | 2 | 4 | 6 | 5 | | 5 | 7 | 6 | 5 | 6 |
| 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 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |
| Preputial Gland | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | | | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Mesothelioma Malignant | X | X | | X | | X | X | X | | X | | X | | X | | X | | X | | X | | X | | X | | |
| Bilateral, Interstitial Cell, Adenoma | | X | | | | X | X | | | | | X | | X | | X | | | | | X | X | | X | | |
| Interstitial Cell, Adenoma | X | | X | X | X | | | | X | | X | | X | | X | | | | X | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Leukemia Mononuclear | | X | | | | | | | | X | | | | X | X | | | | X | | | | | X | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | |
| Deep Cervical, Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Bronchial | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 |

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

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

Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

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Lab: BNW

| FISCHER 344 RATS MALE

50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(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 | | | | | | | | | | | | | |
| | 7 | 7 | 6 | 6 | 7 | 5 | 6 | 6 | 7 | 6 | 5 | 7 | 7 | 6 | 7 | 7 | 2 | 2 | 4 | 3 | 2 | 9 | 1 | 6 | 5 | | 5 | 7 | 6 | 5 | 6 | 3 | 8 | 9 | 8 | 3 | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X |
| Lymph Node, Mediastinal
Leukemia Mononuclear | | + | + | A | + | + | M | + | M | M | + | M | M | M | + | + | + | M | + | + | M | + | M | M | + | M | | | | | | | | | M | M | |
| | | X | | | | | | | | | | X | | | | | | X | | X | | | | X | | | | | | | | | | | X | | |
| Lymph Node, Mesenteric
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | X | | | | | | | | | X | X | | | | | X | X | | | | X | | | | | | | | | | | X | X | | | |
| Spleen
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | X | | | | | | | X | X | | | | | | | | X | X | | | | X | | | | | | | | | | | X | X | | |
| Mesothelioma Malignant | | X | | X | | X | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Thymus
Carcinoma, Metastatic, Thyroid Gland | + | + | A | + | M | + | + | M | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | X | | | | | | | | | X | X | | | | | X | | | | | X | | | | | | | | | | | X | | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|
| Mammary Gland
Carcinoma
Fibroadenoma | M | M | M | M | M | M | M | + | + | + | M | M | M | M | + | + | M | + | + | + | M | + | + | + | M | + | + | M | + | + | M | M | | | | | | | | | | | X | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | | | | |
| Keratoacanthoma | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Squamous Cell Papilloma | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trichoepithelioma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Fibroma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Schwannoma 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

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

Lab: BNW

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

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

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

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

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Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

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Vinylidene chloride

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Lab: BNW

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|------|------|------|------|------|------|------|------|--|--|
| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | | | | | | | |
| | 0730 | 0705 | 0663 | 0662 | 0749 | 0500 | 0668 | 0660 | 0700 | 0661 | 0506 | 0772 | 0774 | 0664 | 0732 | 0729 | 0206 | 0446 | 0657 | 0552 | 0730 | 0668 | 0591 | 0659 | 0603 | | 0789 | 0511 | 0668 | 0653 | | | | | | | |
| 50 ppm | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) | | | | | | | | | | | |
| 0401 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | | 0007 | 0008 | 0009 | 0000 | 0001 | 0002 | 0003 | 0004 | 0005 | | |
| Mesothelioma Malignant | X | X | | X | X | X | X | X | | X | X | X | | X | | | X | | | X | X | | X | | X | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with tumor
+ .. Tissue examined microscopically
X .. Lesion present
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 Lab: BNW

| FISCHER 344 RATS MALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0730 | 0668 | 0729 | 0730 | 0533 | 0729 | 0637 | 0555 | 0554 | 0729 | 0730 | 0423 | 0729 | 0730 | 0637 | 0730 | 0637 | 0555 | 0554 | 0637 | 0730 | 0730 | |
| ANIMAL ID | 0042 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | 0044 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 49
1 |

ALIMENTARY SYSTEM

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

* .. 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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 Species/Strain: RATS/F 344/N

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 Lab: BNW

| FISCHER 344 RATS MALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|
| | 0730 | 0668 | 0729 | 0730 | 0533 | 0729 | 0637 | 0555 | 0554 | 0729 | 0729 | 0422 | 0722 | 0733 | 0733 | 0670 | 0731 | 0596 | 0557 | 0556 | 0611 | 0729 | 0733 | 0731 | | 0729 |
| ANIMAL ID | 00426 | 00442 | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | X | | X | X | | | | 4 | |
| Mesothelioma Malignant | | X | | | X | | | X | | | | | | | | | | | | | | | | | 7 | |
| Acinus, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Duct, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | X | X | | | | 2 | |
| Mesothelioma Malignant | | X | | | X | | | X | | | | | | | | | | | | | | | | | 5 | |
| Stomach, Glandular | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | X | X | | | | | 4 | |
| Mesothelioma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Mononuclear | | | | | | X | | | | | | | | | | | X | X | | | | | | | 6 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Adenoma | | | | | | | | | X | | | | | | | | | | | | | | | | 1 | |
| Leukemia Mononuclear | | | | | | X | | | | | | X | | | X | | X | X | | | | | | | 12 | |
| Adrenal Medulla | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | 48 | |
| Leukemia Mononuclear | | | | | | X | | | | | | X | | | X | | X | | | | | | | | 8 | |
| Pheochromocytoma Benign | | X | | | | | | | | | | | | | | | | | | | | | X | | 5 | |

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

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

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

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

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

| FISCHER 344 RATS MALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|--|
| | 0730 | 0668 | 0729 | 0730 | 0533 | 0729 | 0637 | 0555 | 0554 | 0772 | 0774 | 0422 | 0723 | 0773 | 0633 | 0731 | 0733 | 0567 | 0556 | 0557 | 0661 | 0722 | 0733 | 0733 | | 0729 | |
| ANIMAL ID | 00426 | 00447 | 00408 | 00409 | 00400 | 00401 | 00402 | 00403 | 00404 | 00405 | 00406 | 00407 | 00408 | 00409 | 00410 | 00411 | 00412 | 00413 | 00414 | 00415 | 00416 | 00417 | 00418 | 00419 | 00420 | | |
| Bilateral, Pheochromocytoma Benign | | | | | | | X | | | | | | | | | | | | | | | | | | 3 | | |
| Islets, Pancreatic Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Islets, Pancreatic Carcinoma | | | | | | | X | | | | | | X | | | | | | | | | X | | | 3 | | |
| Parathyroid Gland Adenoma | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | + | 47 | | |
| Pituitary Gland Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Pituitary Gland Pars Distalis, Adenoma | X | | | X | | | | | | X | X | | X | X | X | | | | X | X | X | X | X | X | 5 | | |
| Thyroid Gland C-cell, Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Thyroid Gland C-cell, Carcinoma | | | | | | | | | | | | | X | | | | | | | | | | | | 4 | | |
| Thyroid Gland Follicular Cell, Carcinoma | | | | | | | | | | | | | | | | X | | | | | | | | | 3 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum Mesothelioma Malignant | | | | | | + | | | | | | | | | | | | | | | | | | | 4 | | |
| Peritoneum Tunica Vaginalis, Mesothelioma Malignant | | | | | | X | | | | | | | | | | | | | | | | | | | 3 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis Mesothelioma Malignant | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Epididymis Mesothelioma Malignant | X | X | | X | X | X | X | X | X | | X | | | | X | | | X | | X | | | | | 25 | | |
| Penis | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |

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

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

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

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

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

| FISCHER 344 RATS MALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0730 | 0668 | 0729 | 0730 | 0533 | 0729 | 0637 | 0555 | 0554 | 0772 | 0773 | 0422 | 0723 | 0773 | 0770 | 0671 | 0756 | 0556 | 0557 | 0661 | | 0729 | 0730 | 0731 |
| ANIMAL ID | 00426 | 00447 | 00448 | 00449 | 00450 | 00451 | 00452 | 00453 | 00454 | 00455 | 00456 | 00457 | 00458 | 00459 | 00460 | 00461 | 00462 | 00463 | 00464 | 00465 | 00466 | 00467 | 00468 | 00469 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Adenoma | | | | | | | | | | | | | | | | | X | | | | | X | | 2 |
| Carcinoma | | | | | | | | | X | | | | | | | | | X | | | | X | | 3 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | X | | | | | | 1 |
| Mesothelioma Malignant | | X | | | X | | | | | | | | | | | | | | | | | | | 2 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 48 |
| Adenoma | | | | | | | | | | | | X | | | | | | | | | | | | 1 |
| Mesothelioma Malignant | | X | | | X | | | | | | | | | | | | | | | | | | | 3 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Mesothelioma Malignant | X | X | | X | X | | X | X | | X | | | | | X | X | X | | X | | X | | | 23 |
| Bilateral, Interstitial Cell, Adenoma | X | X | | | X | | X | | | | | | | | X | X | X | | | | | X | | 17 |
| Interstitial Cell, Adenoma | | | X | | X | | | | X | X | X | | X | X | | | X | | X | X | X | | X | 22 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Leukemia Mononuclear | X | | | | | X | | | X | | | | | | X | | X | X | | | | | | 12 |
| Lymph Node | | | | | | + | | | + | | | | | | | | | + | + | | + | | | 9 |
| Deep Cervical, Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | X | | | | | 2 |
| Pancreatic, Leukemia Mononuclear | | | | | | X | | | X | | | | | | | | | X | | | | | | 6 |
| Lymph Node, Bronchial | + | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | + | + | M | M | M | M | 9 |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | X | X | | | | | 4 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 |

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

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

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

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

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

| FISCHER 344 RATS MALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|
| | 0730 | 0668 | 0729 | 0730 | 0533 | 0729 | 0637 | 0555 | 0554 | 0729 | 0772 | 0422 | 0722 | 0773 | 0773 | 0631 | 0739 | 0556 | 0557 | 0661 | 0729 | 0730 | 0731 | 0729 | | |
| ANIMAL ID | 00426 | 00447 | 00448 | 00449 | 00450 | 00451 | 00452 | 00453 | 00454 | 00455 | 00456 | 00457 | 00458 | 00459 | 00460 | 00461 | 00462 | 00463 | 00464 | 00465 | 00466 | 00467 | 00468 | 00469 | 00470 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymph Node, Mediastinal
Leukemia Mononuclear | + | M | M | + | M | + | M | M | M | + | M | + | M | + | M | + | M | M | + | + | + | M | M | M | + | 24 |
| | X | | | | X | | | | | | | | X | | | X | | | | | | | | | 9 | |
| Lymph Node, Mesenteric
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | X | | | | X | | | X | | | | X | | | X | X | X | X | | | | | | | 16 | |
| Spleen
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | X | | | | X | | | X | | | | X | | | X | X | X | X | | | | | | | 16 | |
| Mesothelioma Malignant | | X | | | X | | | X | | | | | | | | | | | X | | | | | | 8 | |
| Thymus
Carcinoma, Metastatic, Thyroid Gland | + | M | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 41 |
| | X | | | | X | | | | | | | | | | | X | | X | X | | | | | | 1 | |
| Leukemia Mononuclear | | | | | | X | | | | | | | | | | X | | X | X | | | | | | 10 | |

INTEGUMENTARY SYSTEM

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

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

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

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

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

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

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

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

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|--------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
| | 0730 | 0668 | 0729 | 0730 | 0533 | 0729 | 0637 | 0555 | 0554 | 0729 | 0729 | 0422 | 0729 | 0729 | 0617 | 0739 | 0556 | 0557 | 0557 | 0661 | 0729 | 0729 | 0729 | 0729 | | |
| ANIMAL ID | 00426 | 00442 | 00442 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Mononuclear | | | | | | | X | | | | | | | | | | | | X | | | | | | 3 | |
| Sarcoma | | | | | | | | X | | | | | | | | | | | | | | | | | 1 | |
| Respiratory Epithelium, Adenoma | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | |
| Trachea | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Carcinoma, Metastatic, Thyroid Gland | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 47 | |
| Harderian Gland | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Mononuclear | X | | | | | X | | | X | | | | | | X | X | X | X | | | | | | | 13 | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Mesothelioma Malignant | | X | | | | | | X | | | | | | | | | | | | | | | | | 3 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Leukemia Mononuclear | X | | | | | X | | | X | | | X | | | X | X | X | X | | | | | | | 16 | |

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

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

Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:50

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

Lab: BNW

| FISCHER 344 RATS MALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|
| | 0730 | 0668 | 0729 | 0730 | 0535 | 0729 | 0637 | 0557 | 0554 | 0729 | 0730 | 0423 | 0729 | 0730 | 0631 | 0731 | 0539 | 0556 | 0557 | 0617 | 0729 | 0730 | 0731 | 0729 | | 0730 | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00426 | 00447 | 00448 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 | 00444 |
| Mesothelioma Malignant | X | X | | X | X | X | X | X | X | X | X | | | | X | | | X | | X | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 28 | | |

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

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

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

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

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

| FISCHER 344 RATS MALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0701 | 0703 | 0702 | 0722 | 0723 | 0733 | 0755 | 0766 | 0744 | 0777 | 0744 | 0755 | 0777 | 0744 | 0722 | 0733 | 0777 | 0766 | 0755 | 0777 | 0722 | 0766 | 0755 | 0766 | 0755 | | |
| Mesothelioma Malignant | X | | | X | | | | | | | | | X | | | | | | | | X | | X | | | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | X | | | |
| Acinus, Carcinoma | | | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | X | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | X | | | | | | | | | | | X | | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrous Histiocytoma, Metastatic, Skin | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | X | X | X | | | | | | | X | | X | | | X | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | X | | | X | | | X | X | | | | | | | X | X | | | | | X | |

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

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

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

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

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

| FISCHER 344 RATS MALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---|----------------------------|--------------------|
| | 07
00
11 | 07
03
00 | 07
02
09 | 07
02
09 | 06
03
05 | 07
03
00 | 06
05
06 | 04
09
05 | 07
02
09 | 07
03
00 | 04
04
09 | 05
02
06 | 07
03
00 | 07
04
06 | 06
03
00 | 07
01
08 | 06
07
06 | 05
03
04 | 07
03
01 | 06
02
09 | 05
00
00 | 06
06
01 | 06
01
09 | 07
06
02 | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 00
00
06
00
11 | males
(cont...) |
| Leukemia Mononuclear | | | | | | X | | | | | | | X | X | | | | | | X | | | | | | 00
00
06
00
11 | males
(cont...) |
| Pheochromocytoma Benign | | | | | X | | | | | | | | | | | | | | | X | | | | | | 00
00
06
00
11 | males
(cont...) |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | X | | | | 00
00
06
00
11 | males
(cont...) |
| Bilateral, Pheochromocytoma Benign | | | | | | X | | | | | | | | | | | | | | | | | | | | 00
00
06
00
11 | males
(cont...) |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 00
00
06
00
11 | males
(cont...) |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | 00
00
06
00
11 | males
(cont...) |
| Carcinoma | | X | | | | | | | | | | | | | | | | | X | X | | | | | | 00
00
06
00
11 | males
(cont...) |
| Parathyroid Gland | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 00
00
06
00
11 | males
(cont...) |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 00
00
06
00
11 | males
(cont...) |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | 00
00
06
00
11 | males
(cont...) |
| Pars Distalis, Adenoma | X | X | X | X | X | X | X | X | X | X | | | | X | | | | X | X | X | X | X | X | | X | 00
00
06
00
11 | males
(cont...) |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 00
00
06
00
11 | males
(cont...) |
| C-cell, Adenoma | | | | | | | | | | | | | | X | | | | | | | | | | | | 00
00
06
00
11 | males
(cont...) |
| C-cell, Carcinoma | | X | | | X | | | | | | | | | | | | | | | | | | | | | 00
00
06
00
11 | males
(cont...) |

GENERAL BODY SYSTEM

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

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

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

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

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

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

| FISCHER 344 RATS MALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|------|------|
| | 0701 | 0703 | 0702 | 0722 | 0723 | 0733 | 0735 | 0765 | 0766 | 0744 | 0774 | 0777 | 0745 | 0777 | 0766 | 0700 | 0776 | 0755 | 0777 | 0722 | | | 0766 | 0755 | 0766 | 0765 | 0766 | 0761 | 0762 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | X | X | | | | | | | | | | | | X | | | | |
| Respiratory Epithelium, Adenoma | | | | X | X | | | | X | | | | | | | | | | | | | | | | | | | | |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | X | | | | | | | | | | | | X | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | X | | | X | | X | X | | | | | | | X | X | X | | X | | | | | X | |
| Mesenchymal Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Renal Tubule, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | X | | | | | | | | | | | | | X | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | X | | | X | | X | X | X | | | | | | | X | X | X | | X | | | | X | |

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | | | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| | 0730 | 0730 | 0668 | 0668 | 0770 | 0770 | 0664 | 0664 | 0557 | 0557 | 0777 | 0777 | 0555 | 0555 | 0666 | 0666 | 0557 | 0557 | 0666 | 0666 | | 0777 | 0777 | 0667 | 0667 | 0777 | 0777 | 0667 | 0667 | | | | | | | |
| ANIMAL ID | 00626 | 00667 | 00668 | 00669 | 00670 | 00671 | 00672 | 00673 | 00674 | 00675 | 00676 | 00677 | 00678 | 00679 | 00680 | 00681 | 00682 | 00683 | 00684 | 00685 | 00686 | 00687 | 00688 | 00689 | 00690 | 00691 | 00692 | 00693 | 00694 | 00695 | 00696 | 00697 | 00698 | 00699 | 00700 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | 11 | |
| Pheochromocytoma Benign | | | X | X | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | 7 | |
| Pheochromocytoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Bilateral, Pheochromocytoma Benign | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 1 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 4 |
| Parathyroid Gland | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 3 |
| Pars Distalis, Adenoma | X | X | X | | X | | X | X | | X | | | X | X | | | | X | | | | | | | | | | | | | | | | | X | 33 |
| Thyroid Gland | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| C-cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | 3 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Osteosarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Abdominal, Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | |

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

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

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

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

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

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

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

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

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

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

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

| FISCHER 344 RATS FEMALE
Control | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|
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2 | | |
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2 | 0
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2 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Parathyroid Gland | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Adenoma | | | X | X | X | | X | | X | X | | | X | X | X | | X | | X | X | X | X | X | X | X | |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | X | | | | | | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Adenoma | | | | | | | X | | | | X | | | | | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | M | + | + | + | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Adenoma | | | | | | | | | | | | X | | | | | | | X | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Granulosa-Theca Tumor Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sertoli Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Polyp Stromal | | X | | | | | | | | | | | | | | | | | X | | X | | | X | | |

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

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

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

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

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0732 | 0733 | 0735 | 0772 | 0776 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | 0777 | |
| Control | 0010 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | |

Bilateral, Polyp Stromal X

HEMATOPOIETIC SYSTEM

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

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

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

Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:50

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

Lab: BNW

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

females (cont...)

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
Control | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
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| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Alveolar/Bronchiolar Adenoma | | | | | | | | | X | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | X | | | | | | | | | | | | | | | | | | X | | | | |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla | | | | | | | | | | | | | | X | | | | | | | | | | | | |
| Sarcoma, Metastatic, Uncertain Primary Site | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | X | | | | | | | | | | | | | | | | | | | X | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. 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

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Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:50

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

Lab: BNW

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0732 | 0733 | 0751 | 0774 | 0766 | 0777 | 0777 | 0777 | 0777 | 0777 | 0766 | 0777 | 0777 | 0777 | 0777 | 0755 | 0777 | 0777 | 0777 | 0777 | 0766 | 0766 | 0766 | 0777 | 0755 | |
| Control | 0010 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | |

Leukemia Mononuclear

SYSTEMIC LESIONS

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

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

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Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

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

Lab: BNW

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

ALIMENTARY SYSTEM

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

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

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

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

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

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

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

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| | 0731 | 0739 | 0779 | 0766 | 0773 | 0768 | 0777 | 0766 | 0773 | 0768 | 0777 | 0766 | 0773 | 0768 | 0777 | 0766 | 0773 | 0768 | 0777 | 0766 | 0773 | 0768 | 0777 | 0766 | | 0773 | 0768 |
| Control | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0016 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | | | | X | | | | X | | | | | | | | | | | | | | | | | | | 2 |
| Pars Distalis, Adenoma | X | X | X | | X | X | X | | X | | | X | | | X | X | X | X | X | | | | | | | X | 32 |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| C-cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Granulosa-Theca Tumor Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | | | X | | | | X | | | | | | | | | | | | | | | | X | | | 3 |
| Sertoli Cell Tumor Malignant | | | | | | | | | | X | | | | | | | | | | | | | | | | | 1 |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | | | | X | | | | X | | | | | | | | | | | | | | | | | | | 2 |
| Polyp Stromal | X | X | | | | | X | | X | X | | | | | | | | | | | | | | | | | 10 |

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

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

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

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

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

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

Bilateral, Polyp Stromal

1

HEMATOPOIETIC SYSTEM

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

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | 07
31 | 05
79 | 07
19 | 06
56 | 07
33 | 06
87 | 07
33 | 06
75 | 07
31 | 06
62 | 07
33 | 06
73 | 07
33 | 06
63 | 07
33 | 06
71 | 07
33 | 06
64 | 07
33 | 06
73 | 07
33 | 06
63 | 07
33 | 06
72 | |
| Control | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | 00
11 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

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

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

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

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

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

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

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

M .. Missing tissue
 A .. Autolysis precludes evaluation
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 Species/Strain: RATS/F 344/N

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 Vinylidene chloride
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 Lab: BNW

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|----|---|----|
| FISCHER 344 RATS FEMALE | DAY ON TEST | 7 | 5 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 |
| | | 3 | 7 | 1 | 5 | 3 | 8 | 3 | 7 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 9 |
| | | 1 | 9 | 9 | 6 | 3 | 7 | 3 | 5 | 3 | 1 | 2 | 3 | 3 | 1 | 2 | 3 | 4 | 3 | 2 | 3 | 3 | 3 | 2 | 1 |
| Control | ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
| Leukemia Mononuclear | | X | | | | | | | | | | | | | | | | | | | | | 1 | | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | | | | | | | | | | | | | | | | | | | | | 50 | | |
| Leukemia Mononuclear | | | | X | | | | X | | | | | X | | | | | X | | | X | | | | 10 |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

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

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

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

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

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

ALIMENTARY SYSTEM

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

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

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

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

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

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0732 | 0733 | 0735 | 0731 | 0733 | 0732 | 0740 | 0762 | 0763 | 0772 | 0773 | 0775 | 0777 | 0779 | 0781 | 0783 | 0785 | 0787 | 0789 | 0791 | 0793 | 0795 | 0797 | 0799 | | |
| 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 | 0000 | |
| | 3 | 3 | 7 | 3 | 3 | 3 | 7 | 1 | 5 | 3 | 3 | 3 | 4 | 1 | 7 | 3 | 3 | 1 | 6 | 3 | 5 | 3 | 0 | 3 | 3333 | |
| | 2 | 3 | 5 | 1 | 2 | 2 | 0 | 2 | 3 | 3 | 2 | 2 | 1 | 9 | 1 | 2 | 1 | 7 | 1 | 2 | 1 | 2 | 9 | 3 | 0000 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 1111 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Stomach, Forestomach
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | X | | | | | | | | | | | | | | | | | | | | | | |

CARDIOVASCULAR SYSTEM

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

ENDOCRINE SYSTEM

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

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0732 | 0733 | 0735 | 0731 | 0733 | 0732 | 0740 | 0762 | 0773 | 0773 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | 0775 | | |
| Parathyroid Gland Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | |
| Pituitary Gland Leukemia Mononuclear | + | + | | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Adenoma | X | X | X | | X | X | | X | X | X | X | X | X | X | | | | | | | | | | X | X | X | X |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thyroid Gland Schwannoma Malignant, Metastatic, Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Adenoma | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Follicular Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland Adenoma | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary Granulosa Cell Tumor Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Granulosa-Theca Tumor Benign | X | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

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 Species/Strain: RATS/F 344/N

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Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0732 | 0733 | 0735 | 0731 | 0732 | 0730 | 0732 | 0733 | 0733 | 0732 | 0732 | 0731 | 0739 | 0731 | 0732 | 0731 | 0737 | 0731 | 0736 | 0737 | 0734 | 0737 | 0737 | 0737 | 0737 | |
| 25 ppm | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | |
| ANIMAL ID | 3301 | 3302 | 3303 | 3304 | 3305 | 3306 | 3307 | 3308 | 3309 | 3300 | 3301 | 3302 | 3303 | 3304 | 3305 | 3306 | 3307 | 3308 | 3309 | 3300 | 3301 | 3302 | 3303 | 3304 | 3305 | |

Polyp Stromal

X

X

X

Vagina

+

Granular Cell Tumor Benign

X

Leiomyosarcoma

HEMATOPOIETIC SYSTEM

Bone Marrow

+ +

Leukemia Mononuclear

X

X

X

Lymph Node

Deep Cervical, Leukemia Mononuclear

Pancreatic, Leukemia Mononuclear

Lymph Node, Bronchial

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

Leukemia Mononuclear

X

Lymph Node, Mandibular

M M

Lymph Node, Mediastinal

Carcinoma, Metastatic, Thyroid Gland

Leukemia Mononuclear

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

X

X

Lymph Node, Mesenteric

Leukemia Mononuclear

+ +

X

X

X

X

X

Spleen

Leukemia Mononuclear

Schwannoma Malignant, Metastatic, Heart

+ +

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
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 Test Type: CHRONIC
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | |
|-------------------------|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|------|
| FISCHER 344 RATS FEMALE | | 0732 | 0733 | 0735 | 0731 | 0733 | 0732 | 0740 | 0772 | 0763 | 0773 | 0775 | 0754 | 0771 | 0757 | 0773 | 0773 | 0767 | 0776 | 0744 | 0777 | | 0777 | 0777 | 0777 |
| 25 ppm | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | |
| | | 0030 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 | 0003 |

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

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

* .. Total animals with tissue examined microscopically; Total animals with tumor
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 X .. Lesion present
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 Lab: BNW

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

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0661 | 0673 | 0673 | 0653 | 0673 | 0673 | 0673 | 0673 | 0666 | 0666 | 0655 | 0666 | 0666 | 0666 | 0666 | 0677 | 0677 | 0677 | 0666 | 0666 | | 0666 | 0677 | 0677 |
| ANIMAL ID | 00326 | 00337 | 00332 | 00335 | 00331 | 00331 | 00331 | 00331 | 00339 | 00339 | 00331 | 00339 | 00335 | 00333 | 00332 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + |
| Leukemia Mononuclear | | | | X | | | | | | | | | | | | X | | X | | | X | | | |
| Thymoma Benign | | | X | | | | | | | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Carcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | | X | | | | | X | | | X | | | X | | | X | | X | X | X | | X | | X |
| Fibroadenoma, Multiple | | | | | | X | | X | X | | X | | X | | X | X | | | | | X | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | X | | | |
| Schwannoma Malignant, Metastatic, Heart | | | | | | | | | | | | | | | | | | | | | | | | |
| SKIN | | | | | | | | | | | | | | | | | | | | | | | | |
| Basal Cell Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Subcutaneous Tissue, Fibroma | | | | | | | | | | X | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Neural Crest Tumor | | | | | X | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Schwannoma Malignant | | X | | | | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Osteoma | | | | | | | | | | | | | | X | | | | | | | | | | |
| SKELETAL MUSCLE | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | |
| Schwannoma Malignant, Metastatic, Heart | | | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

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

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

RESPIRATORY SYSTEM

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

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | X | | | | 1 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

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

Schwannoma Malignant, Metastatic, Heart

1

URINARY SYSTEM

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

SYSTEMIC LESIONS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | | | | X | | X | | | | | | | | | X | | X | | | | X | | | | 11 |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | 1 |

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

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

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

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

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

| FISCHER 344 RATS FEMALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|----------------------|
| | 0583 | 0771 | 0772 | 0773 | 0774 | 0775 | 0776 | 0777 | 0778 | 0779 | 0770 | 0771 | 0772 | 0773 | 0774 | 0775 | 0776 | 0777 | 0778 | 0779 | 0770 | 0771 | 0772 | | |
| ANIMAL ID | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | |
| | 5501 | 5502 | 5503 | 5504 | 5505 | 5506 | 5507 | 5508 | 5509 | 5510 | 5511 | 5512 | 5513 | 5514 | 5515 | 5516 | 5517 | 5518 | 5519 | 5520 | 5521 | 5522 | 5523 | | |

ALIMENTARY SYSTEM

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

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

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

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

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

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| | 0583 | 0731 | 0732 | 0563 | 0733 | 0733 | 0664 | 0662 | 0772 | 0773 | 0773 | 0773 | 0666 | 0666 | 0777 | 0777 | 0777 | 0777 | 0666 | 0777 | 0777 | 0777 | 0777 | 0666 | | |
| 50 ppm | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0050 | 0055 | 0050 | 0050 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | 0055 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Stomach, Glandular
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | X | | | | | | | | | X | | | | | | | X | | | | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Adenoma
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | X | | | | | | | | | | X | | | | | | | | | | | | |
| Adrenal Medulla
Leukemia Mononuclear
Pheochromocytoma Benign
Pheochromocytoma Malignant
Bilateral, Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | | | | | | | | X | | | | | | | | | | X | X | | |
| Islets, Pancreatic
Adenoma
Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Parathyroid Gland | + | + | M | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | M | + | + | M | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

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

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

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

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

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

| FISCHER 344 RATS FEMALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|---|---|
| | 0
5
8
3 | 0
7
3
1 | 0
7
3
2 | 0
5
6
3 | 0
7
3
2 | 0
7
3
3 | 0
6
3
4 | 0
6
7
2 | 0
7
3
2 | 0
7
3
3 | 0
7
3
1 | 0
6
2
3 | 0
6
3
1 | 0
7
3
2 | 0
7
3
1 | 0
6
3
3 | 0
6
3
2 | 0
7
3
1 | 0
7
3
2 | 0
7
3
3 | | | | |
| Leukemia Mononuclear
Pars Distalis, Adenoma | | | | X | | | | | X | X | | | | X | | X | X | | X | | | X | | |
| Thyroid Gland | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Adenoma | | | | X | | | | | | | | | | | | | | | X | X | | | | |
| C-cell, Carcinoma | | | | | | | | | X | | | | X | | | | | | | | | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | + |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | X |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | |
| Adenoma | | | | X | | | | | | | | | | | | | | | X | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Granulosa Cell Tumor Malignant | | | | | | | | | | | | | | | | | | | X | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | X | | | | | | | | | | |
| Mesothelioma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | |
| Yolk Sac Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Polyp Stromal | | X | | | | | | | | | | | | | | | | | | X | | | X | |
| Sarcoma Stromal | | | X | X | | | | | | | | | | | | | | | | | | | | |
| Endometrium, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

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

Fibroadenoma, Multiple

X X X X X

Skin +
 Keratoacanthoma X
 Subcutaneous Tissue, Fibroma
 Subcutaneous Tissue, Sarcoma

MUSCULOSKELETAL SYSTEM

Bone +
 Chondroma X
 Skeletal Muscle +
 Mesothelioma Malignant X
 Sarcoma

NERVOUS SYSTEM

Brain +

RESPIRATORY SYSTEM

Larynx +
 Lung +
 Alveolar/Bronchiolar Adenoma X
 Leukemia Mononuclear X X
 Pheochromocytoma Malignant, Metastatic, Adrenal Medulla X
 Sarcoma, Metastatic, Skeletal Muscle

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

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

Experiment Number: 20303 - 05
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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 Lab: BNW

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | | | | | | | | | | | | | | | |
|------------------------------|-----------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|---|---|
| FISCHER 344 RATS FEMALE | | 0583 | 0731 | 0732 | 0563 | 0733 | 0733 | 0733 | 0667 | 0667 | 0772 | 0773 | 0773 | 0667 | 0667 | 0773 | 0773 | 0773 | 0667 | 0667 | 0773 | | 0773 | 0773 | 0667 | 0667 | 0773 | 0773 | 0773 | 0667 | 0667 | 0773 | 0773 | 0773 | 0667 | 0667 | | | | |
| 50 ppm | ANIMAL ID | 005001 | 005002 | 005003 | 005004 | 005005 | 005006 | 005007 | 005008 | 005009 | 005010 | 005011 | 005012 | 005013 | 005014 | 005015 | 005016 | 005017 | 005018 | 005019 | 005020 | | 005021 | 005022 | 005023 | 005024 | 005025 | 005026 | 005027 | 005028 | 005029 | 005030 | 005031 | 005032 | 005033 | 005034 | 005035 | | | |
| Nose | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Trachea | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Harderian Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| Zymbal's Gland Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | X | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | X | | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | X | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | | | | X | | | | | | | | | X | | X | | | | | | | | | | | | | | | | | | | | | | | X | |
| Mesothelioma Malignant | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

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

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

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

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

ALIMENTARY SYSTEM

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

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

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

Experiment Number: 20303 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

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

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

| FISCHER 344 RATS FEMALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------------------------|----|----|
| | 0526 | 0533 | 0538 | 0541 | 0545 | 0547 | 0550 | 0553 | 0556 | 0559 | 0562 | 0565 | 0568 | 0571 | 0574 | 0577 | 0580 | 0583 | 0586 | 0589 | | 0592 | | |
| ANIMAL ID | 0052 | 0055 | 0058 | 0061 | 0064 | 0067 | 0070 | 0073 | 0076 | 0079 | 0082 | 0085 | 0088 | 0091 | 0094 | 0097 | 0100 | 0103 | 0106 | 0109 | 0112 | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Glandular
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | X | + | + | + | + | + | + | + | 50
1 | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
9 | | |
| X | | X | | X | | | X | | | | | | X | | | | | | | X | | | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Adenoma
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1
7 | | |
| X | | X | | | | | | | X | | | | X | | | | | | X | | | | | |
| Adrenal Medulla
Leukemia Mononuclear
Pheochromocytoma Benign
Pheochromocytoma Malignant
Bilateral, Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
4
1
2
1 | | |
| + | + | + | + | + | + | + | + | + | X | | | | X | | | | | | X | | | | | |
| Islets, Pancreatic
Adenoma
Carcinoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1
1 | | |
| + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X | | | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 45 |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

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

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

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| FISCHER 344 RATS FEMALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| | 0526 | 0533 | 0538 | 0541 | 0545 | 0551 | 0556 | 0560 | 0565 | 0570 | 0575 | 0579 | 0584 | 0589 | 0594 | 0599 | 0604 | 0609 | 0614 | 0619 | | 0624 | 0629 |
| ANIMAL ID | 0052 | 0055 | 0058 | 0061 | 0064 | 0067 | 0070 | 0073 | 0076 | 0079 | 0082 | 0085 | 0088 | 0091 | 0094 | 0097 | 0100 | 0103 | 0106 | 0109 | 0112 | 0115 | |
| Leukemia Mononuclear | X | | | X | | | X | X | | | | X | | | | | | | | | X | | 8 |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | 4 |
| Deep Cervical, Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreatic, Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | 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 | 4 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Lymph Node, Mediastinal | M | M | | | | M | M | | M | M | M | M | | M | | | | | | M | | | 29 |
| Leukemia Mononuclear | | | X | | X | | | | | | | | | | | | | | | | | X | 5 |
| Lymph Node, Mesenteric | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Leukemia Mononuclear | X | | X | X | X | | | X | X | | | | X | | | | | | X | | X | | 13 |
| Spleen | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Leukemia Mononuclear | X | | X | X | X | | | X | X | | | | X | | | | | | X | | X | | 13 |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Thymus | | | | M | | | | | | | | | | | | | | | | | | | 42 |
| Leukemia Mononuclear | | | X | | X | | | X | X | | | | | | | | | | | | X | | 6 |
| Thymoma Malignant | | | | | | | | | | | | | | | | | | | | | | | 1 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | | | | | | | | | | | | | | | | | | | | | | 50 |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Fibroadenoma | | | X | X | | | | | X | | | | X | X | X | X | | X | X | | X | | 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

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 Lab: BNW

| FISCHER 344 RATS FEMALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|
| | 0526 | 0553 | 0668 | 0771 | 0754 | 0775 | 0666 | 0673 | 0777 | 0777 | 0777 | 0575 | 0777 | 0575 | 0777 | 0777 | 0474 | 0777 | 0777 | 0777 | | 0474 | 0777 |
| ANIMAL ID | 0052 | 0055 | 0006 | 0007 | 0005 | 0007 | 0006 | 0006 | 0007 | 0007 | 0007 | 0005 | 0007 | 0005 | 0007 | 0007 | 0004 | 0007 | 0007 | 0007 | 0004 | 0007 | 0007 |
| Fibroadenoma, Multiple | | | | X | | X | | | | | X | | X | | | | X | | | | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Keratoacanthoma | | | | | | | | | | | | | | | | | | | | | | | |
| Subcutaneous Tissue, Fibroma | | | | X | | | | | | | | | | | | | | | | X | | | |
| Subcutaneous Tissue, Sarcoma | | | | | | | | | | | | | | | | | | | | | X | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Chondroma | | | | | | | | | | | | | | | | | | | | | | | |
| Skeletal Muscle | | | | | | | | | | | | | + | | | | | | | + | | | |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | | |
| Sarcoma | | | | | | | | | | | | X | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Alveolar/Bronchiolar Adenoma | X | | | | | | | | | | | | | | | | | | | X | | | |
| Leukemia Mononuclear | X | | X | | X | | X | | X | | | | X | | | | | X | | | X | | |
| Pheochromocytoma Malignant, Metastatic, Adrenal Medulla | | | | | | | | | | | | | | | | | | | | | | X | |
| Sarcoma, Metastatic, Skeletal Muscle | | | | | | | | | | | | X | | | | | | | | | | | |

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

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

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

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

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

| FISCHER 344 RATS FEMALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|
| | 0526 | 0533 | 0538 | 0541 | 0544 | 0547 | 0550 | 0553 | 0556 | 0559 | 0562 | 0565 | 0568 | 0571 | 0574 | 0577 | 0580 | 0583 | 0586 | 0589 | | 0592 |
| ANIMAL ID | 00526 | 00533 | 00538 | 00541 | 00544 | 00547 | 00550 | 00553 | 00556 | 00559 | 00562 | 00565 | 00568 | 00571 | 00574 | 00577 | 00580 | 00583 | 00586 | 00589 | 00592 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | 1 |
| Zymbal's Gland
Carcinoma | | | | | | | | | | | | | | | | | | | | | | 1 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | X | | X | | X | | | X | | | | | X | | | | X | | | X | | 9 |
| Renal Tubule, Adenoma | | | | | | | | | | | | | | | | | | | | | | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | X | | X | X | X | | | X | | X | | | X | | | | X | | | X | | 13 |
| Mesothelioma Malignant | | | | | | | | | | | | | | | | | | | | | | 1 |

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|-------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|---|
| | 0656 | 0375 | 0773 | 0773 | 0775 | 0777 | 0777 | 0777 | 0665 | 0557 | 0776 | 0776 | 0666 | 0666 | 0777 | 0777 | 0666 | 0557 | 0777 | 0666 | 0666 | 0666 | 0667 | 0667 | | | |
| Pars Distalis, Adenoma | | | X | X | X | | X | | X | | | | X | X | X | | X | | X | X | X | X | | X | 0656 | | |
| Pars Distalis, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 0375 | | |
| Pars Distalis, Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | 0773 | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0777 | | |
| C-cell, Adenoma | | | | | X | | | | | | | | | | | | | | | X | | | | | 0777 | X | |
| C-cell, Carcinoma | | | | | | | | | X | | | | | | | | | | | | | X | | | 0775 | | |
| Follicular Cell, Adenoma | | | | | X | | | | | | | | | | | | | | | | | | | | 0773 | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | 0777 | + |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | 0777 | | |
| Adenoma | | | | | | | | | | | | | | | | | | | | | X | | | X | 0777 | | |
| Carcinoma | | | | | | | | | | | | X | | | | | | | | X | X | | | | 0777 | X | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0777 | | |
| Leukemia Mononuclear | X | X | X | | | X | | | | | | | | | | | | | | | X | | X | X | 0777 | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0777 | | |
| Leukemia Mononuclear | X | | | | | | | | | | | | | | | | | | | | | | | | 0777 | | |
| Polyp Stromal | | | | | | | | | | X | X | X | | | | | | | | | | | | | 0777 | | |
| Endometrium, Carcinoma | X | | | | | | | | | | | | | | | | | | | | | | | | 0777 | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | 0777 | + | |
| Polyp | | | | | | | | | | | | | | | | | | | | | | | | | 0777 | X | |

HEMATOPOIETIC SYSTEM

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

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

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

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

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

| FISCHER 344 RATS FEMALE

100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | females
(cont...) | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|---|---|---|
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | | | | |
| | 6 | 3 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 6 | 6 | 7 | 7 | 6 | 5 | 7 | 6 | 7 | | 6 | 6 | 6 | 7 | |
| ANIMAL ID | | 5 | 9 | 0 | 3 | 0 | 2 | 3 | 4 | 6 | 3 | 3 | 5 | 7 | 3 | 0 | 5 | 7 | 1 | 4 | 3 | 4 | 7 | 5 | 3 | |
| ANIMAL ID | | 6 | 5 | 5 | 3 | 4 | 5 | 2 | 1 | 2 | 7 | 2 | 3 | 5 | 7 | 1 | 3 | 6 | 9 | 2 | 2 | 2 | 5 | 0 | 3 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| ANIMAL ID | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | |
| ANIMAL ID | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| Bone Marrow | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | X | X | X | | | X | | | | | | | X | | X | | | | | X | X | | X | | |
| Lymph Node | | | | | | | + | | | | | | | | | | + | | | | | | | | | |
| Deep Cervical, Leukemia Mononuclear | | | | | | | | | | | | | | | | | X | | | | | | | | | |
| Pancreatic, Leukemia Mononuclear | | | | | | | X | | | | | | | | | | | | | | | | | | | |
| Renal, Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Bronchial | | + | M | M | M | M | M | M | + | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | |
| Leukemia Mononuclear | | X | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | | + | M | M | M | M | M | M | M | + | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | X | | | | | | | | | | |
| Lymphoma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mediastinal | | + | + | + | + | + | + | + | M | M | + | + | + | M | + | + | + | M | + | + | + | + | + | + | M | |
| Leukemia Mononuclear | | X | X | X | | | X | | | | | | | | X | X | X | | | | X | X | | X | | |
| Lymph Node, Mesenteric | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | X | X | X | X | | X | | | | | | X | | X | X | X | X | | | X | X | | X | | |
| Spleen | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Leukemia Mononuclear | | X | X | X | X | | X | | | | | | X | | X | X | X | X | | | X | X | X | | X | |
| Thymus | | + | + | + | + | + | + | + | + | + | + | M | + | M | + | M | M | + | + | + | + | M | + | M | + | |
| Leukemia Mononuclear | | X | | X | | | X | | | | | | | | X | | | | | X | | | | | | |

INTEGUMENTARY SYSTEM

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

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

Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:50

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

Lab: BNW

| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------|
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| FISCHER 344 RATS FEMALE | | 6 | 3 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 6 | 6 | 7 | 7 | 6 | 5 | 7 | 6 | 7 | 6 | 6 | 6 | 7 | | |
| | | 5 | 9 | 0 | 3 | 0 | 2 | 3 | 3 | 4 | 6 | 3 | 3 | 5 | 7 | 3 | 0 | 5 | 7 | 1 | 4 | 3 | 4 | 7 | 5 | 3 | |
| 100 ppm | | 6 | 5 | 5 | 3 | 4 | 5 | 2 | 1 | 2 | 7 | 2 | 3 | 5 | 7 | 1 | 3 | 6 | 9 | 2 | 2 | 2 | 5 | 0 | 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 | | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | females (cont...) |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fibroadenoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Skin | | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carcinoma, Metastatic, Pituitary Gland | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oligodendroglioma Malignant | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx | | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chondroma | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

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

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

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

| FISCHER 344 RATS FEMALE

100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|
| | 0656 | 0375 | 0773 | 0774 | 0777 | 0777 | 0777 | 0777 | 0666 | 0555 | 0777 | 0777 | 0666 | 0666 | 0777 | 0777 | 0666 | 0555 | 0777 | 0666 | | | 0666 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 5 | 9 | 0 | 3 | 0 | 2 | 3 | 3 | 4 | 6 | 3 | 3 | 5 | 7 | 3 | 0 | 5 | 7 | 1 | 4 | 3 | 4 | 7 |
| | 6 | 5 | 5 | 3 | 4 | 5 | 2 | 1 | 2 | 7 | 2 | 3 | 5 | 7 | 1 | 3 | 6 | 9 | 2 | 2 | 2 | 5 | 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 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

Respiratory Epithelium, Adenoma

Pleura

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

+ +

Harderian Gland

+ +

Lacrimal Gland

+

URINARY SYSTEM

Kidney

Leukemia Mononuclear

+
 X

Urinary Bladder

Leukemia Mononuclear

+
 X

SYSTEMIC LESIONS

Multiple Organ

Histiocytic Sarcoma

Leukemia Mononuclear

Lymphoma Malignant

+
 X

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

M .. Missing tissue
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Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
| | 0628 | 0717 | 0683 | 0773 | 0773 | 0676 | 0777 | 0777 | 0777 | 0777 | 0777 | 0116 | 0677 | 0676 | 0777 | 0667 | 0677 | 0575 | 0776 | 0666 | 0677 | 0676 | 0676 | 0676 | | |
| 100 ppm | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 00726 | 50 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hepatocellular Adenoma | | | | | | | X | | | | | | | | | | | | | | | | | | 1 |
| Hepatocellular Adenoma, Multiple | | | | | | | | | | | | X | | | | | | | | | | | | | 1 |
| Leukemia Mononuclear | | X | X | | | | X | | X | | | | X | X | | | | | X | X | X | | | X | 24 |
| Mesentery | + | + | | + | | | | + | + | | | | | | | + | + | + | | | + | + | + | + | 24 |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Leukemia Mononuclear | | X | | | | | | | | X | | | | | | | | | | X | X | | | X | 9 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

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

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

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

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

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

| FISCHER 344 RATS FEMALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|----------|
| | 0628 | 0717 | 0673 | 0773 | 0773 | 0679 | 0772 | 0772 | 0771 | 0773 | 0772 | 0133 | 0676 | 0771 | 0677 | 0767 | 0676 | 0773 | 0578 | 0773 | 0669 | 0673 | 0676 | 0678 | |
| ANIMAL ID | 00726 | 00772 | 00773 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Stomach, Forestomach
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
5 | |
| Stomach, Glandular
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
4 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
9 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Adenoma
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1
17 | |
| Adrenal Medulla
Leukemia Mononuclear
Pheochromocytoma Benign
Bilateral, Pheochromocytoma Benign | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49
13
1
1 | |
| Islets, Pancreatic
Adenoma | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 | |
| Parathyroid Gland | + | + | + | + | + | M | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| Pituitary Gland
Leukemia Mononuclear | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49
9 | |

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

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

Experiment Number: 20303 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|
| | 0628 | 0717 | 0683 | 0773 | 0773 | 0679 | 0772 | 0772 | 0771 | 0773 | 0773 | 0113 | 0676 | 0771 | 0676 | 0774 | 0676 | 0773 | 0588 | 0773 | 0669 | 0676 | 0773 | 0676 | | |
| ANIMAL ID | 00726 | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | 00750 | |
| Pars Distalis, Adenoma | | X | X | X | | X | | | X | | X | | X | X | X | | | X | | X | X | X | | | 28 | |
| Pars Distalis, Carcinoma | | | | | | | | X | | | | | | | | | | | | | | | | | 1 | |
| Pars Distalis, Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| C-cell, Adenoma | | | | X | | X | X | X | X | | | | | X | | X | | | | | | | | | 11 | |
| C-cell, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Follicular Cell, Adenoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | 48 | |
| Adenoma | | | | | | | | | | | | | | | | | X | X | | | | | | | 4 | |
| Carcinoma | | | | X | | | | | | | | | | | | | | | | | | | | | 5 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Mononuclear | | | | X | | | | | X | | | | | X | | | | | X | X | | | | X | 13 | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Mononuclear | | X | | | | | | | | | | | | | | | | | X | X | | | | | 4 | |
| Polyp Stromal | | | | | | | | | | | X | | | | | | | | X | X | | | | X | 8 | |
| Endometrium, Carcinoma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Polyp | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |

HEMATOPOIETIC SYSTEM

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

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

Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:50

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

Lab: BNW

| FISCHER 344 RATS FEMALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|
| | 0628 | 0717 | 0683 | 0773 | 0773 | 0669 | 0772 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | 0773 | | |
| ANIMAL ID | 00726 | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Mononuclear | | X | | | | | | | | X | | | X | X | | | | | | X | X | X | | X | 17 | |
| Lymph Node | + | | + | | | | | | | + | | | | | | | | | | + | + | + | | + | 9 | |
| Deep Cervical, Leukemia Mononuclear | | | | | | | | | | X | | | | | | | | | | | | | | X | 3 | |
| Pancreatic, Leukemia Mononuclear | | | X | | | | | | | X | | | | | | | | | | X | X | X | | X | 7 | |
| Renal, Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymph Node, Bronchial | + | + | M | M | M | M | M | M | M | M | M | M | M | + | + | + | + | M | M | M | + | M | M | M | 10 | |
| Leukemia Mononuclear | | X | | | | | | | | | | | | X | | | | | | X | | | | | 4 | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymph Node, Mandibular | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 4 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Lymph Node, Mediastinal | M | + | M | + | + | + | + | + | + | + | M | + | + | + | M | M | + | M | + | + | + | + | M | + | 38 | |
| Leukemia Mononuclear | | X | | | | | X | | X | | | | X | X | | | | | | X | X | X | | X | 19 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | |
| Leukemia Mononuclear | | X | X | | | | X | | X | | | | X | X | | | | | | X | X | X | | X | 23 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Mononuclear | | X | X | | | | X | | X | | | | X | X | | | | | | X | X | X | X | | X | 25 |
| Thymus | + | + | M | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | 42 | |
| Leukemia Mononuclear | | X | | | | | X | | X | | | | X | X | | | | | | X | X | | | X | 13 | |

INTEGUMENTARY SYSTEM

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

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

Experiment Number: 20303 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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 Lab: BNW

| FISCHER 344 RATS FEMALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|--|--|
| | 0628 | 0717 | 0618 | 0703 | 0703 | 0606 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | 0707 | | | |
| ANIMAL ID | 00726 | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | 00749 | 00750 | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Carcinoma | | | | | X | | | | | | | | | | | | | | | | | | | | 4 | | |
| Fibroadenoma | X | | | X | X | | X | | | | | | X | X | | X | X | | X | | X | | X | | 25 | | |
| Fibroadenoma, Multiple | | X | X | | X | | X | | X | | X | | | | X | | | | | X | | X | | | 14 | | |
| Leukemia Mononuclear | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Carcinoma, Metastatic, Pituitary Gland | | | | | | | | | | X | | | | | | | | | | | | | | | 1 | | |
| Leukemia Mononuclear | | X | | | | | | | | | | | | | | | | | X | | | | X | | 5 | | |
| Oligodendroglioma Malignant | | | | | | | | | | | | | | | X | | | | | | | | | | 1 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Alveolar/Bronchiolar Carcinoma, Multiple | | | | | | | | | | | | | | | | | | | | | | | X | | 1 | | |
| Leukemia Mononuclear | | X | X | | | X | | X | | | X | X | | | | | X | X | X | | | | X | | 21 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Chondroma | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Leukemia Mononuclear | | | | | | | | | | | X | X | | | | | | | X | | | X | | 10 | | | |

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

M .. Missing tissue
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P04: NEOPLASMS BY INDIVIDUAL ANIMAL
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| FISCHER 344 RATS FEMALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----------|
| | 0628 | 0777 | 0673 | 0773 | 0773 | 0666 | 0777 | 0777 | 0777 | 0777 | 0777 | 0116 | 0677 | 0677 | 0777 | 0677 | 0777 | 0575 | 0776 | 0666 | 0776 | 0667 | 0667 | | |
| ANIMAL ID | 00726 | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | | |
| Respiratory Epithelium, Adenoma | | | | | | X | | | | | | | | | | | | | | | | | | 1 | |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Mononuclear | | X | | | | | X | | X | | | | X | X | | | | | X | X | X | | X | 18 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Leukemia Mononuclear | | | | | | | | | | | | | | X | | | | | X | | | | X | 4 | |
| SYSTEMIC LESIONS | | | | | | | | | | | | | | | | | | | | | | | | | |
| Multiple Organ | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Histiocytic Sarcoma | | | | | | | | | | | | | | | | X | | | | | | | | 1 | |
| Leukemia Mononuclear | | X | X | | | | X | | X | | | | X | X | | | | | X | X | X | X | | 25 | |
| Lymphoma Malignant | X | | | | | | | | | | | | | | | | | | | | | | 1 | | |

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with tumor
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 X .. Lesion present
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M .. Missing tissue
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