

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Vinylidene chloride
CAS Number: 75-35-4

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

F1_R2

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

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FISCHER 344 RATS MALE Control	DAY ON TEST																									males (cont...)
	0677	0662	0679	0673	0651	0677	0677	0677	0677	0677	0677	0666	0677	0677	0666	0666	0677	0677	0633	0677	0666	0677	0666	0666		
ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	
Hyperplasia, Lymphoid				2						3																
Lymph Node, Mesenteric Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen Fibrosis Hematopoietic Cell Proliferation Hyperplasia, Stromal	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Thymus	+	M	+	+	+	+	+	+	+	+	+	+	M	M	+	M	+	+	+	+	+	+	+	+	+	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	M	+	+	+	+	+	+	M	+	+	+	M	M	M	M	+	+	M	M	+	+	
Skin Cyst Epithelial Inclusion Hyperplasia, Squamous Inflammation, Chronic Active	+	+	+	+	+	+	+	+	+	+	+	+	X				X									
														1												
														4												
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																									+	
NERVOUS SYSTEM																										
Brain Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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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	06	07	07	05		
Control	9	5	3	3	2	3	9	2	2	6	9	1	3	3	2	2	4	5	3	1	7	2	2	6	5
	2	1	0	5	9	0	1	9	9	4	8	4	0	0	9	9	9	5	4	0	7	0	9	6	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	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

ENDOCRINE SYSTEM

Adrenal Cortex Hyperplasia	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	49	26	2.0
Hyperplasia	2		2			2		2			2				2		2		2		2		2		1	2.0
Adrenal Medulla Hyperplasia	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	49	25	2.2
Hyperplasia			2	2			2	2	3		2		3	2				2	2			2	2		3	
Islets, Pancreatic Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	3.0
Parathyroid Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	1	3.0
Pituitary Gland Pars Distalis, Angiectasis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	2	2.0
Pars Distalis, Hyperplasia			2						3									2					2		10	2.6
Pars Intermedia, Angiectasis																									1	2.0
Pars Intermedia, Hyperplasia																									1	2.0
Thyroid Gland C-cell, Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	15	1.1
Follicular Cell, Hyperplasia	1	1						1	2								1	1			1	1	1		2	2.0

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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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	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	02	
ANIMAL ID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
ANIMAL ID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
ANIMAL ID	02	02	02	02	03	03	03	03	03	03	03	03	03	03	03	04	04	04	04	04	04	04	04	04	05	
ANIMAL ID	06	07	08	09	00	01	02	03	04	05	06	07	08	09	00	01	02	03	04	05	06	07	08	09	00	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Preputial Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 1 2.0	
Prostate Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 5 1.8	
Prostate Inflammation, Suppurative				2		2				2								2						2	4 2.0	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Testes Atrophy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50 9 3.1	
Testes Hemorrhage					3									4	3		4							3	1 2.0	
Testes Interstitial Cell, Hyperplasia	2																		1						4 1.3	
HEMATOPOIETIC SYSTEM																										
Bone Marrow Hyperplasia, Reticulum Cell	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	49 1 4.0	
Lymph Node Pancreatic, Hyperplasia, Lymphoid							+			+	+														6 1 2.0	
Lymph Node, Bronchial Hyperplasia, Lymphoid	M	+	M	M	+	M	M	M	M	+	M	+	M	M	M	M	M	M	M	M	M	M	M	M	8 1 2.0	
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 Ectasia	M	M	+	M	+	M	+	M	+	M	+	M	M	M	+	+	+	M	+	+	+	+	+	+	28 1 2.0	

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	04	05	07	06	07	07	05	07	07	05	06	06	07	07	07	07	06	06	07	07	06	07	07	05	
ANIMAL ID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	22	22	22	22	33	33	33	33	33	33	33	33	33	33	33	44	44	44	44	44	44	44	44	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	
Hyperplasia, Lymphoid																								2 2.5	
Lymph Node, Mesenteric Hyperplasia, Lymphoid	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
																								50	
																								1 2.0	
Spleen Fibrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
																								50	
Hematopoietic Cell Proliferation																								3 2.3	
Hyperplasia, Stromal																								3 2.3	
																								1 3.0	
Thymus	+	+	M	+	+	+	+	+	+	I	+	+	+	M	+	+	+	+	+	+	+	M	+		
																								42	
INTEGUMENTARY SYSTEM																									
Mammary Gland	+	M	M	+	+	+	+	+	M	+	M	M	+	+	+	+	+	+	M	+	+	+	+		
																								36	
Skin Cyst Epithelial Inclusion	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
																								50	
Hyperplasia, Squamous																								4 3.0	
Inflammation, Chronic Active																								1 1.0	
																								2 4.0	
MUSCULOSKELETAL SYSTEM																									
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
																								50	
Skeletal Muscle																								3	
NERVOUS SYSTEM																									
Brain Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
																								50	
																								1 2.0	

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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	06		07	07	05	
Control	9	5	3	3	2	3	9	2	2	6	9	1	3	3	2	2	4	5	3	1	7	2	2	6	
	2	1	0	5	9	0	1	9		4	8	4	0	0	9	9	5	4	0	7	0	9	9	2	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	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	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	

Peripheral Nerve	2
Spinal Cord	2

RESPIRATORY SYSTEM

Larynx	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active							2																			1 2.0
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Foreign Body																										1
Inflammation, Chronic Active																						1				2 2.5
Mineralization																										1 3.0
Thrombosis																							2			1 2.0
Alveolar Epithelium, Hyperplasia								1							1											7 1.1
Mediastinum, Inflammation, Granulomatous																										1 3.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Foreign Body															X											2
Inflammation, Acute																										2 2.0
Inflammation, Chronic Active							2			1					2		1		1		1					9 1.2
Thrombosis											2									2			3			4 2.3
Olfactory Epithelium, Metaplasia, Respiratory						1								1						1						3 1.0
Respiratory Epithelium, Hyperplasia						2			1					2					2							5 1.6
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	48	
Cataract															4	2										3 3.0

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	0631	0661	0671	0681	0691	0701	0711	0721	0731	0741	0751	0761	0771	0781	0791	0801	0811	0821	0831	0841	0851	0861	0871		
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		
ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	

Fat, Necrosis

2 2 2 2

Pancreas

Atrophy
Hyperplasia

+
1 3 3 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Salivary Glands

Atrophy

+ +

Stomach, Forestomach

Hyperplasia, Squamous
Inflammation, Chronic Active
Ulcer

+
1 3 4 1 2 1 1 1 1 2 1 1 1 1 2 1 1 2 1 2 1

Stomach, Glandular

+ +

Tongue

+

CARDIOVASCULAR SYSTEM

Heart

Cardiomyopathy
Inflammation, Chronic Active
Thrombosis

+
1 1 2 1 1 1 3 3 3 2 1 1 1 1 2 1 2 1 2 1

ENDOCRINE SYSTEM

Adrenal Cortex

Hyperplasia
Hypertrophy
Necrosis

+
2 2 2 2 2 2 3 2

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| 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 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 6 | 6 | 6 | 7 | 6 | 5 | 3 | 7 | 7 | 7 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 7 | |
| | 3 | 1 | 1 | 2 | 3 | 4 | 5 | 2 | 2 | 3 | 1 | 6 | 4 | 3 | 2 | 3 | 3 | 1 | 3 | 9 | 2 | 2 | 6 | 5 | 3 | 0 | |
| | 1 | 9 | 1 | 9 | 0 | 3 | 5 | 9 | 0 | 0 | 9 | 8 | 8 | 0 | 9 | 0 | 1 | 1 | 0 | 9 | 9 | 9 | 3 | 6 | 3 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 0 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Medulla
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | 2 | | | | | 2 | | 2 | | | | 3 | 3 | | | 2 | 2 | | 2 | | | | |
| Islets, Pancreatic
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | 4 | | | | | | | | | | | | | | | | | |
| Parathyroid Gland
Hyperplasia | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Pituitary Gland
Pars Distalis, Hemorrhage
Pars Distalis, Hyperplasia | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | 2 | | | 2 | | | | | 2 | | | 3 | | | | 3 | | | | | |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | 1 | | | | | | | 2 | | 1 | 1 | 1 | | | | | | | | 2 | 1 | | | | |

GENERAL BODY SYSTEM

Peritoneum
Mesothelium, Hyperplasia

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis
Granuloma Sperm
Hyperplasia, Mesothelium | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Preputial Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + |
| | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|--------------------|
| | 06319 | 06611 | 06611 | 06722 | 06634 | 06545 | 06375 | 06772 | 06772 | 06772 | 06666 | 06655 | 06777 | 06777 | 06777 | 06777 | 06777 | 06575 | 06777 | 06777 | 06575 | 06666 | 06666 | 06777 | 06666 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Inflammation, Suppurative | | 3 | | | | 2 | | | | | | | | | | | | | 2 | | | | | 1 | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy | | | | | | 4 | | | | | | 4 | 4 | | 3 | 4 | | | | | | | | | 3 | 4 |
| Hemorrhage | | | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Mesothelium | | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Arteriole, Inflammation | | | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | | | | | | | | | 1 | | | | | | | | | | | | | | | | | 1 |
| Tunic, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymph Node | | + | + | | | | | | | | | | | | | | | | | | | | | | | + |
| Lymph Node, Bronchial Ectasia | 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 | M |
| Lymph Node, Mediastinal | M | M | + | M | M | M | + | + | + | M | + | M | + | + | M | M | M | M | M | + | + | M | M | M | + | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | | | | | | | | | | | | | 2 | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|
| | 0631 | 0661 | 0661 | 0672 | 0663 | 0654 | 0637 | 0677 | 0677 | 0677 | 0666 | 0665 | 0677 | 0677 | 0677 | 0677 | 0677 | 0659 | 0672 | 0677 | 0655 | 0666 | 0667 | 0660 | | |
| 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 | 00020001 | |
| Thymus | M | + | + | + | + | + | + | + | + | + | M | + | M | + | + | + | + | + | + | + | + | + | + | + | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland Hyperplasia | M | M | M | M | M | M | + | + | + | M | + | + | M | + | + | M | + | + | + | + | + | + | M | + | + | |
| Skin Cyst Epithelial Inclusion Hyperkeratosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skeletal Muscle | | | | | | | | | | + | | | | | | | | | | | | | + | + | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx Inflammation, Chronic Active | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lung Inflammation, Acute Thrombosis Alveolar Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | 2 | | | | | | 1 | | | | | 1 | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 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 | 0911 | 0921 | 0931 | 0941 | 0951 | 0961 | 0971 | 0981 | 0991 | 1001 | 1011 | 1021 | 1031 | 1041 | 1051 | 1061 | 1071 | 1081 | 1091 | 1101 | 1111 | 1121 | 1131 | 1141 | 1151 | 1161 | 1171 | 1181 | 1191 | 1201 | 1211 | 1221 | 1231 | 1241 | 1251 | 1261 | 1271 | 1281 | 1291 | 1301 | 1311 | 1321 | 1331 | 1341 | 1351 | 1361 | 1371 | 1381 | 1391 | 1401 | 1411 | 1421 | 1431 | 1441 | 1451 | 1461 | 1471 | 1481 | 1491 | 1501 | 1511 | 1521 | 1531 | 1541 | 1551 | 1561 | 1571 | 1581 | 1591 | 1601 | 1611 | 1621 | 1631 | 1641 | 1651 | 1661 | 1671 | 1681 | 1691 | 1701 | 1711 | 1721 | 1731 | 1741 | 1751 | 1761 | 1771 | 1781 | 1791 | 1801 | 1811 | 1821 | 1831 | 1841 | 1851 | 1861 | 1871 | 1881 | 1891 | 1901 | 1911 | 1921 | 1931 | 1941 | 1951 | 1961 | 1971 | 1981 | 1991 | 2001 | 2011 | 2021 | 2031 | 2041 | 2051 | 2061 | 2071 | 2081 | 2091 | 2101 | 2111 | 2121 | 2131 | 2141 | 2151 | 2161 | 2171 | 2181 | 2191 | 2201 | 2211 | 2221 | 2231 | 2241 | 2251 | 2261 | 2271 | 2281 | 2291 | 2301 | 2311 | 2321 | 2331 | 2341 | 2351 | 2361 | 2371 | 2381 | 2391 | 2401 | 2411 | 2421 | 2431 | 2441 | 2451 | 2461 | 2471 | 2481 | 2491 | 2501 | 2511 | 2521 | 2531 | 2541 | 2551 | 2561 | 2571 | 2581 | 2591 | 2601 | 2611 | 2621 | 2631 | 2641 | 2651 | 2661 | 2671 | 2681 | 2691 | 2701 | 2711 | 2721 | 2731 | 2741 | 2751 | 2761 | 2771 | 2781 | 2791 | 2801 | 2811 | 2821 | 2831 | 2841 | 2851 | 2861 | 2871 | 2881 | 2891 | 2901 | 2911 | 2921 | 2931 | 2941 | 2951 | 2961 | 2971 |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Nose | + | | | | | | | | | | | | | | | | | | | | | | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | 2 | | 1 | 3 | 1 | 2 | | 1 | 3 | | 3 | 1 | 1 | 1 | 2 | 3 | 3 | | 2 | 2 | 1 | | 2 | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | 3 | 2 | 3 | 4 | 3 | 1 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Turbinate, Atrophy | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 2 | |
| Turbinate, Hyperostosis | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 1 | 2 | 2 | 3 | 2 | 2 | 1 | 1 | | 2 | 2 | 3 | 2 | 3 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Eye | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Harderian Gland | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |

Zymbal's Gland

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
Vinylidene chloride
CAS Number: 75-35-4

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

| DAY ON TEST | FISCHER 344 RATS MALE | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|---------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
| | 0
6
3
1 | 0
6
1
9 | 0
6
1
1 | 0
7
2
9 | 0
6
3
0 | 0
5
4
3 | 0
3
5
5 | 0
7
2
9 | 0
7
2
9 | 0
7
3
0 | 0
6
1
9 | 0
6
4
8 | 0
5
3
8 | 0
7
2
0 | 0
7
3
9 | 0
7
3
1 | 0
7
3
1 | 0
7
3
1 | 0
5
9
9 | 0
7
2
9 | 0
7
2
9 | 0
5
6
3 | 0
6
5
6 | | | 0
7
3
0 |
| 25 ppm | 0
0
2
0
1 | 0
0
2
0
2 | 0
0
2
0
3 | 0
0
2
0
4 | 0
0
2
0
5 | 0
0
2
0
6 | 0
0
2
0
7 | 0
0
2
0
8 | 0
0
2
0
9 | 0
0
2
1
0 | 0
0
2
1
1 | 0
0
2
1
2 | 0
0
2
1
3 | 0
0
2
1
4 | 0
0
2
1
5 | 0
0
2
1
6 | 0
0
2
1
7 | 0
0
2
1
8 | 0
0
2
2
9 | 0
0
2
2
0 | 0
0
2
2
1 | 0
0
2
2
2 | 0
0
2
2
3 | 0
0
2
2
4 | 0
0
2
2
5 | |
| Nephropathy | 3 | 2 | 2 | 3 | 1 | | 3 | 2 | 3 | 4 | 3 | 2 | 1 | 2 | 4 | 4 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | 2 | | | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
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Experiment Number: 20303 - 05

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

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

Lab: BNW

| FISCHER 344 RATS MALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| | 0729 | 0731 | 0732 | 0733 | 0734 | 0735 | 0736 | 0737 | 0738 | 0739 | 0740 | 0741 | 0742 | 0743 | 0744 | 0745 | 0746 | 0747 | 0748 | 0749 | 0750 | 0751 | 0752 | |
| 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 | |
| | 002226 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | |
| | 002226 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | |
| | 002226 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------|------------|--------------|------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | I | 49 | | | |
| Intestine Large, Cecum
Inflammation, Acute | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | A | + | + | 44 | 1 3.0 | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 45 | | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 45 | | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | 43 | | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 2.0 | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | 7 | | |
| Clear Cell Focus | X | X | X | X | X | X | X | | | | X | | X | | X | | | | | X | X | | X | 23 | | | |
| Degeneration, Cystic | | | | | | | | 3 | | | | | | | | 2 | | | | | | 3 | | 5 | 2.8 | | |
| Eosinophilic Focus | | | | | | | | X | | | | | | X | | X | | | | | | | | 6 | | | |
| Fatty Change, Diffuse | | | | | 2 | | | | | 1 | | 1 | | 1 | 1 | | | | | 1 | 2 | 1 | | 19 | 1.7 | | |
| Hepatodiaphragmatic Nodule | | | | | | | | X | | | | | | | | | | | | | | | | 1 | | | |
| Inflammation, Chronic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 46 | 1.2 |
| Mixed Cell Focus | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Necrosis | | | | | | | | | | 3 | 3 | | | | | | | | | | 4 | | | | 6 | 2.8 | |
| Bile Duct, Hyperplasia | | 1 | | 1 | | | | | | 1 | | | 1 | 2 | | 2 | | 1 | | | 4 | 1 | | 1 | 1 | 23 | 1.1 |
| Mesentery | + | + | | | | | | | | + | + | + | + | | | + | | | | | | | + | | 15 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
+ .. Tissue examined microscopically
X .. Lesion present
I .. Insufficient tissue
M .. Missing tissue
A .. Autolysis precludes evaluation
BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| | 0729 | 0731 | 0732 | 0739 | 0749 | 0770 | 0772 | 0773 | 0774 | 0775 | 0776 | 0777 | 0778 | 0779 | 0780 | 0781 | 0782 | 0783 | 0784 | 0785 | 0786 | 0787 | 0788 | 0789 | |
| 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 | |
| Fat, Necrosis | | 2 | | 2 | | | | 2 | 2 | | | | | | 2 | | | | | | | | 2 | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | | 2 | | | | 3 | | | | 1 | | | 1 | 1 | | | 1 | | | 3 | 3 | | 2 | 16 | |
| Hyperplasia | | 1 | | | | | | 3 | | | | | | | 2 | | | | | | | | | 5 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | 2 | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | 3 | | | | 2 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | 1 | 3 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 1 | 2 | 1 | 2 | 3 | 3 | 2 | 3 | | 1 | 1 | 1 | 2 | | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 41 | |
| Inflammation, Chronic Active | | | | | | | | 3 | | | | | | | | | | | | | | | | 1 | |
| Thrombosis | | | | | | | | | | | | | | | 2 | | | | | | | | | 3 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | 2 | 2 | 2 | 2 | 2 | | 2 | | 2 | | 2 | 2 | 2 | | 2 | | 2 | 2 | | | 2 | | 27 | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | 2 | | | 2 | |
| Necrosis | | | | | | | | | | | | | | | | | | 3 | | | | | | 2 | |

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

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 1) Minimal 3) Moderate
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Experiment Number: 20303 - 05
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 Time Report Requested: 09:47:55
 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

| FISCHER 344 RATS MALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| | 0729 | 0731 | 0732 | 0739 | 0749 | 0770 | 0772 | 0773 | 0774 | 0775 | 0776 | 0777 | 0778 | 0779 | 0780 | 0781 | 0782 | 0783 | 0784 | 0785 | 0786 | 0787 | 0788 | 0789 | |
| 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 | |
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | | | | 3 | | 3 | | | | | 2 | 2 | 2 | 2 | |
| Islets, Pancreatic Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | 3 | | 2 | | | | | | | | | | | 3 | |
| Parathyroid Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | | | | | | | | | | | | | | | | | | | | | 2 | | | 2 | |
| Pituitary Gland Pars Distalis, Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Pars Distalis, Hyperplasia | 3 | | | | 2 | | | | | 2 | | | | 2 | | | 4 | | 2 | | | | 2 | 2 | |
| Thyroid Gland C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | 1 | 1 | 1 | | | | 3 | | 1 | | | | 1 | 1 | 1 | | 2 | | | | | | | 16 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum Mesothelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis Granuloma Sperm Hyperplasia, Mesothelium | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | 1 | | 1 | |
| | | | 1 | | | | | | | | | | | | | | | | | | | | | 3 | |
| Preputial Gland Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

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 + .. Tissue examined microscopically
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 I .. Insufficient tissue
 M .. Missing tissue
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 Species/Strain: RATS/F 344/N

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 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|----------|
| | 0729 | 0731 | 0732 | 0739 | 0772 | 0777 | 0779 | 0782 | 0789 | 0790 | 0792 | 0793 | 0794 | 0795 | 0796 | 0797 | 0798 | 0799 | 0800 | 0801 | 0802 | 0803 | 0804 | 0805 | |
| ANIMAL ID | 002226 | 00007 | 00008 | 00009 | 00010 | 00011 | 00012 | 00013 | 00014 | 00015 | 00016 | 00017 | 00018 | 00019 | 00020 | 00021 | 00022 | 00023 | 00024 | 00025 | 00026 | 00027 | 00028 | 00029 | |
| Hyperplasia | 2 | | | | | | 3 | | | | | | 2 | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Atrophy | 4 | | | | | | | | 3 | | | | | | 4 | | | | | | | | | 10 3.7 | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |
| Hyperplasia, Mesothelium | | | | | | | | | | | | | | | | | | | 1 | | | | | 2 1.0 | |
| Arteriole, Inflammation | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Interstitial Cell, Hyperplasia | | | | | | | 2 | | | 2 | | | | | | | | | | | | | | 4 1.5 | |
| Tunic, Hyperplasia | | | 1 | | | | | | | | | | | | | | | | 1 | | | | | 2 1.0 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | + | 4 | |
| Lymph Node, Bronchial Ectasia | M | M | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | + | M | 9 1 3.0 | |
| Lymph Node, Mandibular | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 | |
| Lymph Node, Mediastinal | M | + | M | + | M | + | M | + | M | M | + | M | M | M | + | M | M | M | + | + | + | + | + | 21 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Necrosis | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 2.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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| FISCHER 344 RATS MALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|-----|-----|
| | 0729 | 0731 | 0732 | 0739 | 0749 | 0770 | 0773 | 0779 | 0789 | 0790 | 0799 | 0804 | 0805 | 0807 | 0812 | 0817 | 0826 | 0837 | 0843 | 0846 | 0857 | 0877 | | | |
| ANIMAL ID | 002226 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | 000022 | | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | M | + | + | + | + | + | M | 43 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Hyperplasia | M | M | + | M | + | + | + | + | M | + | + | M | M | M | + | + | + | M | M | + | + | M | 29 | 1 | 2.0 |
| Skin
Cyst Epithelial Inclusion
Hyperkeratosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 3.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Skeletal Muscle | | | | | | | | | | | | | | | + | | | | | | | | 4 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 1 | 2.0 |
| Lung
Inflammation, Acute
Thrombosis
Alveolar Epithelium, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 4.0 |
| | | | | | | | | | 4 | | | | | | | | | | | | | | | 1 | 3.0 |
| | 1 | 1 | 1 | 3 | 3 | 1 | | | | | | | | 1 | 1 | 3 | | | | | | | 18 | 1.5 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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Vinylidene chloride
 CAS Number: 75-35-4

Date Report Requested: 12/12/2011
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| FISCHER 344 RATS MALE | DAY ON TEST | 0730 | 0730 | 0662 | 0672 | 0550 | 0666 | 0676 | 0666 | 0776 | 0657 | 0777 | 0666 | 0776 | 0777 | 0666 | 0776 | 0777 | 0224 | 0446 | 0555 | 0555 | 0777 | 0666 | 0555 | 0666 | 0555 | 0666 | 0555 | 0666 |
| | 50 ppm | 0400 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 | 0004 |
| | ANIMAL ID | 11 | 22 | 33 | 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 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis
Hyperplasia, Mesothelium | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Penis
Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | | |
| Preputial Gland | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Prostate
Hyperplasia
Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| | | | 2 | | 2 | | | | | | | | | 1 | | | | | | | | | | | | | 2 | | 2 | 3 | | 2 |
| Seminal Vesicle
Hyperplasia | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| Testes
Atrophy
Arteriole, Inflammation
Interstitial Cell, Hyperplasia
Tunic, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| | | | | | | | 4 | | | | | 3 | | 3 | | 4 | | | | | | 3 | 4 | | | | | | 1 | | 1 | |
| | | | | | | | | | 2 | | | | | | | | | | | | | 1 | | | | | | | 1 | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node
Pancreatic, Congestion
Pancreatic, Infiltration Cellular, Histiocyte | | | | | | | | | | | | + | + | | | | | | | | | + | | | | | | + | |
| | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Lymph Node, Bronchial
Congestion | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | + | + | M | + | + | M | M | | | 2 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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 First Dose M/F: 06/06/05 / 06/06/05
 Lab: BNW

| FISCHER 344 RATS MALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) |
|---------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-----------|--------------------|
| | 0730 | 0735 | 0740 | 0745 | 0750 | 0755 | 0760 | 0765 | 0770 | 0775 | 0780 | 0785 | 0790 | 0795 | 0800 | 0805 | 0810 | 0815 | 0820 | 0825 | 0830 | 0835 | 0840 | 0845 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00400 | | |
| | 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 | 00044 | |
| | 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 | 00044 | |
| | 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 | 00000 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | | |
| Lymph Node, Mediastinal
Congestion | + | + | A | + | + | M | + | M | M | + | M | M | M | + | + | + | M | + | + | M | + | M | M | + | M | | | |
| Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Lymph Node, Mesenteric
Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Spleen
Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Necrosis | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capsule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Thymus | + | + | A | + | M | + | + | M | + | + | + | + | M | + | + | + | + | M | + | + | + | + | + | + | + | | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Mammary Gland | M | M | M | M | M | M | M | + | + | + | M | M | M | M | + | + | M | + | + | + | M | + | + | M | M | | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | | |
| Cyst Epithelial Inclusion | | | | | | | | | | | | | | | | | | | | | | | | | | X | 2 | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

MUSCULOSKELETAL SYSTEM

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

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

males (cont...)

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | 2 | | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | 3 | | | 3 | | | 1 | 1 | | | 1 | 1 | | | 1 | | | 2 | | | 1 | | |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | | | 2 | | | | | | | | | | | |
| Alveolar Epithelium, Metaplasia, Mucous | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | X | | | | | | |
| Inflammation, Chronic Active | 4 | 1 | 3 | 1 | 4 | 2 | 2 | 4 | 1 | 3 | 2 | 2 | 3 | 3 | 4 | 4 | | 3 | 3 | 2 | 3 | 1 | 3 |
| Thrombosis | | | 2 | | | 4 | 3 | | | | | | | 2 | | | | | | | 4 | | |
| Olfactory Epithelium, Metaplasia, Respiratory | 4 | 2 | 3 | 2 | 4 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 2 | 3 | 4 | 3 | 3 | 4 |
| Olfactory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | 3 | | | 3 | 3 | | 3 | | 2 | | | 2 | 2 | 3 | 3 | | | 3 | | 1 | | 3 | |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | males
(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | 0
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0 | 0
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5 | 0
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3 | 0
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8 | 0
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0 | 0
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0 | 0
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1 | 0
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9 | 0
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9 | 0
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9 | 0
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| ANIMAL ID | 0
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2 | 0
0
4
2
2 |
| Respiratory Epithelium, Metaplasia, Squamous Turbinate, Atrophy | 4 | 3 | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 |
| Turbinate, Hyperostosis | 2 | 3 | 3 | 2 | 2 | 1 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Infarct | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | 4 | | | | | |
| Nephropathy | 4 | 3 | 2 | 2 | 3 | | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 4 | 4 | 2 | 2 | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | 1 | | | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| Urinary Bladder | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | 2 | | | | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | 3 | | | | | |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| | 0730 | 0668 | 0729 | 0733 | 0535 | 0769 | 0657 | 0555 | 0554 | 0772 | 0674 | 0523 | 0723 | 0733 | 0631 | 0739 | 0566 | 0557 | 0557 | 0661 | | 0723 | 0733 | 0731 |
| 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 |
| Bile Duct, Hyperplasia | | | | 1 | | 2 | | | | | | | | | | 1 | 1 | 1 | 1 | 1 | | | 1 | |
| Bile Duct, Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | |
| Mesentery
Inflammation, Chronic Active
Fat, Necrosis | + | + | + | + | | | | | + | + | | | | | + | | | | + | + | | | + | |
| | | | | | | | | | | | | | | | 2 | | | | | | | | | 21 |
| | 2 | | 2 | 2 | | | | | 2 | | | | | | 2 | | | | 2 | | | | 2 | 14 |
| Pancreas
Atrophy
Hyperplasia
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | 3 | 1 | | 2 | | | 2 | | | | | | 3 | 2 | | | 2 | 1 | 3 | 1 | | 25 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1.9 |
| | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | 2.5 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | 4.0 |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Stomach, Forestomach
Hyperplasia, Squamous
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | | | | | | 1 | | | | | | | | | | | | | 3 | | | | | 2 |
| | | | | | | | | | | | | | | | | | | | | | | | | 2.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | 2.0 |
| Stomach, Glandular
Mineralization
Necrosis
Ulcer | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | 1 | | 1 | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1.0 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3.0 |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Blood Vessel
Aorta, Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | | | | | | | 3.0 |
| Heart
Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| | 2 | 2 | 1 | 1 | 2 | | 1 | 1 | 1 | 1 | 1 | | 1 | 2 | 2 | | 2 | | 1 | 1 | | 1 | 2 | 39 |
| | | | | | | | | | | | | | | | | | | | | | | | | 1.6 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 20303 - 05
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| FISCHER 344 RATS MALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|------|-----|
| | 0730 | 0668 | 0729 | 0730 | 0533 | 0729 | 0637 | 0555 | 0554 | 0774 | 0779 | 0423 | 0729 | 0770 | 0776 | 0667 | 0753 | 0556 | 0557 | 0667 | | 0729 | 0733 | 0731 | 0772 | 0779 | |
| ANIMAL ID | 00426 | 00447 | 00448 | 00449 | 00400 | 00401 | 00402 | 00403 | 00404 | 00405 | 00406 | 00407 | 00408 | 00409 | 00410 | 00411 | 00412 | 00413 | 00414 | 00415 | 00416 | 00417 | 00418 | 00419 | 00420 | | |
| Thrombosis | 3 | | | | 3 | | | | | 4 | | | | | | | | | | | | | | | | 6 | 3.0 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|-----|
| Adrenal Cortex
Hyperplasia
Hypertrophy | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 27 | 2.0 | | |
| | 2 | | 3 | 2 | | | | | 2 | 2 | 2 | 2 | | 2 | 2 | 2 | | | 2 | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2.0 |
| Adrenal Medulla
Hyperplasia
Bilateral, Hyperplasia | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 17 | 1.9 | | |
| | 3 | 2 | | 2 | | | | | 2 | | | 2 | | 2 | 2 | 2 | | | 2 | | | | | | 2 | 2 | 2 | 2 | 1 | 3.0 |
| Islets, Pancreatic
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 3 | 2.7 | | |
| | | | | | | | | | | | | | | 3 | | | | | | | | | | | 3 | 3 | 2.7 | | | |
| Parathyroid Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | + | + | 47 | 1 | 2.0 | | |
| Pituitary Gland
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 14 | 2.5 | | |
| | | 2 | 3 | | | 3 | | | 2 | | | | | | | | | | | | | | | | | 49 | | | | |
| Thyroid Gland
C-cell, Hyperplasia
Follicular Cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 19 | 1.3 | | |
| | | | 1 | | 2 | | | | | | | | | 1 | | | | | | | | | | | 2 | 19 | 1.3 | 2 | 2.5 | |

GENERAL BODY SYSTEM

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

GENITAL SYSTEM

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|------|-----|-----|
| | 0730 | 0668 | 0729 | 0730 | 0533 | 0729 | 0635 | 0554 | 0554 | 0729 | 0729 | 0422 | 0729 | 0729 | 0671 | 0739 | 0563 | 0557 | 0671 | 0729 | | 0729 | 0729 | 0729 | | |
| ANIMAL ID | 00426 | 00447 | 00448 | 00449 | 00440 | 00441 | 00442 | 00443 | 00444 | 00445 | 00446 | 00447 | 00448 | 00449 | 00450 | 00451 | 00452 | 00453 | 00454 | 00455 | 00456 | 00457 | 00458 | | | |
| Epididymis
Hyperplasia, Mesothelium | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 1.0 |
| Penis
Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 4.0 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Prostate
Hyperplasia
Inflammation, Suppurative | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 7 | 1.9 |
| | | | | | | | | | 1 | | | | | | 3 | | 2 | | 2 | | 2 | 2 | | 9 | 2.3 | |
| Seminal Vesicle
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 48 | 1 | 2.0 |
| Testes
Atrophy
Arteriole, Inflammation
Interstitial Cell, Hyperplasia
Tunic, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 13 | 3.3 |
| | | | | | | 2 | | | 3 | | | | 4 | | | 3 | | 4 | | 3 | | 3 | | 6 | 1.3 | |
| | | | | | | | 1 | | | | | 1 | | | | | 2 | | | | | 1 | | 2 | 1.0 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Lymph Node
Pancreatic, Congestion
Pancreatic, Infiltration Cellular, Histiocyte | | | | | | + | | | + | | | | | | | | | + | + | | + | | | 9 | 1 | 2.0 |
| | | | | | | | | | | | | | | | | | | | | 2 | | | | 1 | 2.0 | |
| Lymph Node, Bronchial
Congestion | + | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M | + | + | M | M | M | M | 9 | 1 | 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
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 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|------|----------------------------------|-------------------------|
| | 0730 | 0668 | 0729 | 0733 | 0535 | 0729 | 0637 | 0555 | 0554 | 0779 | 0772 | 0422 | 0723 | 0773 | 0671 | 0739 | 0566 | 0557 | 0557 | 0661 | | 0723 | 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 | | | |
| Ectasia | 2 | | | | | | | | | | | | | | | | | | | | 2 3.0 | | | | | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 1 | | |
| Lymph Node, Mediastinal
Congestion
Hyperplasia, Lymphoid | + | M | M | + | M | + | M | M | M | + | M | + | M | + | M | + | M | M | + | + | + | M | M | M | + | 24 | 1 3.0
2 2.0 |
| Lymph Node, Mesenteric
Congestion
Hyperplasia, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 2.0
1 2.0 | |
| Spleen
Fibrosis
Hematopoietic Cell Proliferation
Necrosis
Capsule, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 2.0
1 4.0
2 2.5
1 1.0 | |
| Thymus | + | M | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | 41 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | M | + | + | M | M | + | + | + | M | + | M | M | + | + | M | M | M | + | + | M | M | 24 | |
| Skin
Cyst Epithelial Inclusion
Inflammation, Acute
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 2 2.0
1 3.0
1 4.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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 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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|--------|--------|
| | 0730 | 0668 | 0729 | 0730 | 0533 | 0729 | 0637 | 0555 | 0554 | 0729 | 0772 | 0422 | 0723 | 0773 | 0671 | 0739 | 0566 | 0557 | 0555 | 0671 | | 0723 | 0733 | 0721 | 0731 | 0729 |
| ANIMAL ID | 00426 | 00447 | 00448 | 00449 | 00400 | 00401 | 00402 | 00403 | 00404 | 00405 | 00406 | 00407 | 00408 | 00409 | 00410 | 00411 | 00412 | 00413 | 00414 | 00415 | 00416 | 00417 | 00418 | 00419 | 00420 | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Skeletal Muscle | | + | | | + | | | + | | | | | | | | | | | | | | | | | 7 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Peripheral Nerve | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Spinal Cord | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | 1 | | | | | | | | | | | 1 1.0 | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Thrombosis | | | 1 | | | | | | 2 | | | | | | | | | | | | | | | | 2 1.5 | |
| Alveolar Epithelium, Hyperplasia | 2 | | 1 | | | | | | | | 2 | | | | | 2 | | | | | 2 | | | | 14 1.6 | |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | 2 | | | 1 2.0 | |
| Alveolar Epithelium, Metaplasia, Mucous | | | | | | | | | 2 | | | | | | | | | | | | | | | | 1 2.0 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | X | 2 | |
| Inflammation, Chronic Active | 4 | 3 | 3 | 3 | | 4 | 4 | 2 | 2 | 3 | 1 | 1 | 3 | 4 | 4 | 2 | 3 | 1 | | | 2 | 3 | 3 | 4 | 3 | 45 2.7 |
| Thrombosis | | | 4 | | | | | | 3 | 3 | | | | | | | | | | 3 | 4 | | | | 11 3.3 | |
| Olfactory Epithelium, Metaplasia, Respiratory | 4 | 4 | 3 | 3 | | 4 | 3 | 3 | 3 | 3 | 3 | 1 | 4 | 4 | 4 | 3 | 4 | 3 | 3 | 1 | 3 | 4 | 3 | 4 | 3 | 49 3.2 |
| Olfactory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | 2 | | | | | | | | | | | 1 2.0 | |
| Respiratory Epithelium, Hyperplasia | 4 | 2 | 2 | | | 1 | | | | | | | 2 | 2 | 3 | | 2 | | | | | | 3 | 2 | 22 2.5 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

M .. Missing tissue
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1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|--------|--|
| | 0730 | 0668 | 0729 | 0730 | 0533 | 0729 | 0637 | 0555 | 0554 | 0779 | 0770 | 0423 | 0722 | 0733 | 0730 | 0670 | 0731 | 0596 | 0553 | 0557 | | 0661 | 0723 | 0733 | 0731 | 0729 | |
| 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 | | |
| Respiratory Epithelium, Metaplasia, Squamous Turbinate, Atrophy | 3 | 4 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 1 2.0 | |
| Turbinate, Hyperostosis | 2 | 2 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 1 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 50 3.2 | |
| Trachea | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | 47 | | |
| Cataract | | | | | | | 1 | | | | | | | | | | | | | | | | | | 1 1.0 | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Harderian Gland | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| Hyperplasia | | | | | | | | | | | | | | | 3 | | | | | | | | | | 1 3.0 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 1 4.0 | | |
| Nephropathy | 4 | 3 | 2 | 3 | | 3 | 2 | 1 | 2 | 2 | 3 | 1 | 3 | 4 | 3 | 2 | 2 | 1 | 2 | | 1 | 3 | 2 | 3 | 2 | 47 2.4 | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | |
| Renal Tubule, Necrosis | | | | | | | | | | | | | | | | | | | 2 | | | | | | 2 1.5 | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Transitional Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
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Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
| | 0701 | 0703 | 0702 | 0722 | 0723 | 0733 | 0755 | 0766 | 0744 | 0777 | 0744 | 0755 | 0777 | 0766 | 0700 | 0777 | 0766 | 0755 | 0777 | 0766 | 0755 | 0766 | 0755 | 0766 | | | 0777 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 000600 | |
| | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 4 | 7 | 7 | 4 | 5 | 7 | 7 | 6 | 0 | 7 | 6 | 5 | 7 | 7 | 6 | 5 | 6 | 7 | 000600 | |
| | 0 | 3 | 2 | 2 | 3 | 3 | 5 | 9 | 2 | 3 | 4 | 4 | 2 | 3 | 7 | 1 | 1 | 7 | 3 | 3 | 2 | 0 | 6 | 1 | 2 | 666666 | |
| | 1 | 0 | 9 | 9 | 5 | 0 | 6 | 5 | 9 | 0 | 9 | 2 | 6 | 0 | 0 | 0 | 8 | 6 | 4 | 1 | 9 | 0 | 1 | 9 | 2 | 000600 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 000600 | |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 000600 | |
| | 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 | 000600 | |
| | 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 | 123456 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|---|
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2222 | |
| Islets, Pancreatic Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | 3 |
| Parathyroid Gland Hyperplasia | + | + | + | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | | 2 |
| Pituitary Gland Angiectasis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | 2 | | 2 | | | | | | | | | | | | 2 |
| Thyroid Gland C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | |
| Follicular Cell, Hyperplasia | | | | | | 1 | 1 | 1 | | | | | | 1 | | | 1 | | 1 | | 1 | 1 | 1 | 2 | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Peritoneum | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|---|
| Coagulating Gland Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
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 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | | | | |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|------|------|
| | 0701 | 0703 | 0702 | 0722 | 0723 | 0733 | 0755 | 0766 | 0744 | 0777 | 0744 | 0755 | 0777 | 0766 | 0700 | 0777 | 0766 | 0755 | 0777 | 0766 | | | 0755 | 0766 | 0777 | 0700 | 0777 | 0766 | 0755 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 7 | 7 | 7 | 7 | 6 | 7 | 6 | 4 | 7 | 7 | 4 | 5 | 7 | 7 | 6 | 0 | 7 | 6 | 5 | 7 | 7 | 6 | 5 | 7 | 6 | 5 | 6 | 7 | 7 |
| | 0 | 3 | 2 | 2 | 3 | 3 | 5 | 9 | 2 | 3 | 4 | 4 | 2 | 3 | 7 | 1 | 1 | 7 | 3 | 3 | 2 | 0 | 6 | 1 | 9 | 2 | 2 | 2 | 2 |
| | 1 | 0 | 9 | 9 | 5 | 0 | 6 | 5 | 9 | 0 | 9 | 2 | 6 | 0 | 0 | 0 | 8 | 6 | 4 | 1 | 9 | 0 | 1 | 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 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 2 | 3 | 4 | 5 | 5 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Degeneration | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Preputial Gland | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prostate | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Suppurative | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminal Vesicle | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Testes | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Atrophy | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Interstitial Cell, Hyperplasia | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tunic, Hyperplasia | 1 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone Marrow | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node | + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreatic, Hyperplasia, Lymphoid | 1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Bronchial | M M M M M M M + M M M M M M M M M M M M M M + M M + | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mandibular | M | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mediastinal | + + M + M + M + + + + M + + + + M M M M + M M M M | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Mesenteric | + | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | | | |
|-----------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|---------|------|
| | 0701 | 0703 | 0702 | 0702 | 0703 | 0703 | 0705 | 0706 | 0704 | 0707 | 0707 | 0704 | 0705 | 0707 | 0707 | 0706 | 0700 | 0707 | 0706 | 0705 | | | 0707 | 0706 | 0705 | 0706 |
| 100 ppm | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0006001 | |

Metaplasia, Squamous

2

Lung

Metaplasia, Osseous
 Alveolar Epithelium, Hyperplasia

+
 3 3

Nose

Foreign Body
 Hyperplasia
 Inflammation, Chronic Active
 Thrombosis
 Olfactory Epithelium, Metaplasia, Respiratory
 Olfactory Epithelium, Metaplasia, Squamous
 Respiratory Epithelium, Hyperplasia
 Respiratory Epithelium, Metaplasia, Squamous
 Turbinate, Atrophy
 Turbinate, Hyperostosis

+ + + + + + + X + + + + + + + + + + + + + + + + + +
 1 2 4 4 3 3 1 3 3 4 3 3 4 4 2 1 3 4 3 4 4 4 3 3 4
 3 3 4 4 4 3 3 4 3 4 3 3 4 4 3 3 4 4 4 3 3 3 3 3 3
 3 2 2 3 4 2 3 2 2 2 3 1 2 2 3 1 2 2 3 3 3 3 3 3 3
 4 4 3 4 4 3 4 4 4 4 4 4 4 4 2 4 4 4 4 4 4 4 4 4 4
 3 4 2 3 2 3 3 2 3 3 2 3 4 3 4 1 3 2 3 3 3 3 4 3 3

Pleura

Hyperplasia
 Infiltration Cellular, Mononuclear Cell

+
 2
 3

Trachea

+ +

SPECIAL SENSES SYSTEM

Eye

Cataract
 Degeneration
 Cornea, Inflammation, Chronic Active

+ +

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | males
(cont...) | | |
|----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|
| | 0701 | 0703 | 0702 | 0702 | 0703 | 0703 | 0705 | 0709 | 0709 | 0700 | 0704 | 0705 | 0707 | 0707 | 0704 | 0705 | 0707 | 0706 | 0700 | 0707 | 0706 | 0705 | 0707 | 0707 | | | 0706 | 0705 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |

Retina, Atrophy

Harderian Gland
Degeneration

+ +

URINARY SYSTEM

Kidney
 Infarct
 Inflammation, Suppurative
 Nephropathy
 Renal Tubule, Hyperplasia
 Transitional Epithelium, Hyperplasia

+
 2
 3 3 1 3 2 4 4 2 2 3 1 2 2 2 3 1 2 2 2 2 2 2 2

Urinary Bladder
 Inflammation, Acute
 Transitional Epithelium, Hyperplasia

+ +

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
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 |
| 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 | | |
| Fat, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 12 2.0 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 | |
| Atrophy | | 2 | 1 | | | | 3 | 1 | | | | | | | 2 | | | | 2 | 1 | | | | 1 | 2 | 20 1.6 | |
| Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | 2 | | 2 | | 7 2.1 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Ulcer | | | | | | | | 4 | | | | | | | | | | | | | | 3 | | | | 6 3.3 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Necrosis | | | | | | | | | | | | | | | 1 | | | | | | | | | 2 | | 3 1.3 | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | 2 2.5 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | 2 | 1 | 2 | 1 | 3 | 1 | 1 | | | 1 | | 1 | | | | 2 | 1 | 1 | | | | | 2 | 2 | 1 | 2 | 35 1.5 |
| Thrombosis | | | | | | | 2 | | | | | | | 2 | | 2 | 3 | | 3 | | | | | 4 | | | 8 2.6 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | 2 | 2 | 2 | 2 | | | 2 | | | 2 | | 2 | | 2 | | 2 | | | | | | 2 | | | 3 | 2 | 27 2.0 |
| Hypertrophy | | | | | 2 | 2 | | | | | | | | | | | | | | | | | | 2 | | | 4 2.0 |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|-----------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|------------|-------------|
| | 0730 | 0733 | 0736 | 0739 | 0743 | 0747 | 0756 | 0764 | 0775 | 0777 | 0779 | 0785 | 0793 | 0795 | 0804 | 0813 | 0815 | 0824 | 0833 | 0835 | 0844 | 0853 | 0855 | | | |
| ANIMAL ID | 006266 | 006662 | 006662 | 006662 | 006663 | 006663 | 006663 | 006663 | 006663 | 006663 | 006666 | 006667 | 006668 | 006669 | 006670 | 006671 | 006672 | 006673 | 006674 | 006675 | 006676 | 006677 | 006678 | | | |
| Adrenal Medulla Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
29 2.3 | | |
| Islets, Pancreatic Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 49
3 2.3 | | |
| Parathyroid Gland Hyperplasia | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | 45
2 2.0 |
| Pituitary Gland Angiectasis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 2.0 | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Pars Distalis, Hyperplasia | | | | | | | 3 | | | | | 3 | | | 2 | 2 | | 3 | | | | 1 | | 9 2.2 | | |
| Thyroid Gland C-cell, Hyperplasia | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
19 1.1 | | |
| Follicular Cell, Hyperplasia | | 1 | 1 | | 1 | | 1 | | | | | | 1 | | 1 | | 1 | | 1 | | | | | 1 1.0 | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Tissue NOS | | | | | | | | | | | | | | | | | | | | | | | | + | 1 | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coagulating Gland Hyperplasia | | | | + | | | + | | | | | | | | | | | | | | | | | | 3
2 3.0 | |
| Inflammation, Suppurative | | | | | | | | | | | | | | | | | | | | | | | | | 3
1 3.0 | |
| Epididymis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
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 |
| 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 |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Prostate | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia | 2 | | | | | | | | | | | | 1 | | | | | | | | | 2 | | | | 5 2.0 |
| Inflammation, Suppurative | | | 3 | | | | 4 | 3 | | | | | | 2 | | 3 | | | | | 4 | | | | | 8 3.0 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 48 |
| Testes | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Atrophy | | | | | | | | | | | | | 3 | | | | | | | | 3 | | | | | 4 3.0 |
| Interstitial Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | | 3 1.0 |
| Tunic, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.0 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 |
| Lymph Node
Pancreatic, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | 7 1 1.0 |
| Lymph Node, Bronchial
Infiltration Cellular, Histiocyte | M | M | M | M | M | M | + | M | M | M | M | M | + | M | M | + | M | + | M | + | M | M | + | M | M | 9 1 3.0 |
| 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 | 0 |
| Lymph Node, Mediastinal
Hyperplasia, Lymphoid | + | + | + | + | + | + | M | M | + | + | M | + | + | + | + | M | + | M | M | + | + | M | + | + | M | 30 2 2.5 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
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 | 0666 | 0666 | 0777 | 0777 | 0666 | 0666 | 0777 | 0777 | | | | | | | | |
| 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 | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 2.8 | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | |
| Thymus | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 44 | | | | |
| Infiltration Cellular, Polymorphonuclear | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | M | M | + | + | + | + | M | M | + | M | + | M | M | M | M | + | M | M | + | | | | | | | | | | | | 32 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 11 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|--------|--------|-------|
| | 0730 | 0733 | 0738 | 0739 | 0733 | 0730 | 0734 | 0737 | 0738 | 0731 | 0739 | 0739 | 0735 | 0735 | 0736 | 0735 | 0737 | 0735 | 0736 | 0736 | | 0736 | 0737 | 0736 | 0737 | 0731 | 0733 | 0731 | 0733 |
| ANIMAL ID | 00626 | 00662 | 00662 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | 00666 | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Metaplasia, Osseous | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Alveolar Epithelium, Hyperplasia | 3 | | | 2 | | | 1 | | | | | | 1 | | | | 2 | 3 | 2 | | 1 | | 4 | 2 | 2 | | | 14 2.3 | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Foreign Body | | | | | | X | | | | | X | | | | | | X | X | | | | | | | | | | 5 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Inflammation, Chronic Active | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 3 | 4 | 1 | 3 | 4 | 3 | 3 | 3 | | 4 | | 4 | 4 | 4 | 3 | 4 | 2 | 1 | | 48 3.2 | | |
| Thrombosis | | | | | | | 3 | | | | | | | | 4 | | | | | | | | | | | | | 7 2.7 | |
| Olfactory Epithelium, Metaplasia, Respiratory | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | | 4 | 2 | 4 | 4 | 4 | 3 | 4 | 2 | 3 | | 48 3.5 | | |
| Olfactory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | 1 | | | | 1 | 2 | 1 | | | | | | 5 1.2 | | |
| Respiratory Epithelium, Hyperplasia | 3 | 2 | 2 | 2 | 2 | 2 | 1 | | 2 | | 2 | 3 | | 1 | 1 | | 3 | | 3 | 3 | 4 | 2 | | | | | 31 2.3 | | |
| Respiratory Epithelium, Metaplasia, Squamous | 2 | | | | | | | | | | | | | | | | | | | | | | 2 | | | | 3 2.0 | | |
| Turbinate, Atrophy | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | | 50 3.8 | | |
| Turbinate, Hyperostosis | 2 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 2 | 3 | | 50 2.9 | | |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | |
| Trachea | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | | 4 | | | 1 4.0 | |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | 4 | | | | | 1 4.0 | |
| Cornea, Inflammation, Chronic Active | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS MALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|--------------------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|-----|----|
| | 07 | 07 | 06 | 06 | 07 | 07 | 06 | 04 | 05 | 07 | 07 | 07 | 05 | 05 | 06 | 05 | 07 | 05 | 06 | 06 | | 06 | 06 | 07 | 06 | 07 |
| 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 | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Harderian Gland Degeneration | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | 49 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3 | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Infarct | | | | | | | | | | | | | | | 2 | | | | | | | | | 2 | | |
| Inflammation, Suppurative | | | | | | | 3 | | | | | | | | | | | | 2 | | | | | 2 | | |
| Nephropathy | 3 | 2 | 4 | 2 | 3 | 3 | 2 | 1 | 1 | 1 | 4 | 3 | 2 | 1 | 2 | | 4 | 1 | 2 | | 3 | 1 | 1 | 2 | 3 | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | 4 | | | | | | | 1 | 4.0 | |
| Transitional Epithelium, Hyperplasia | | | 1 | | | | | | | | | | 2 | | | | | | | | | | | 2 | 1.5 | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Acute | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Transitional Epithelium, Hyperplasia | | | 2 | | | | 2 | | | | | | | | | | | | | | | | | 2 | 2.0 | |

*** END OF MALE DATA ***

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(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 | 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 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | |
| | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 0010 | 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 | 0011 | |
| | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | | | | | 1 | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Clear Cell Focus | X | | | X | | X | | X | | X | | | | | | | X | | | | X | | | |
| Eosinophilic Focus | | | X | | | | | X | | | | X | | | X | | | X | | | | | | |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Diffuse | | | | 1 | | | | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | | 1 | | | | 1 | | 1 |
| Hepatodiaphragmatic Nodule | X | | | | | | | | | | | | | | | X | | | | | | | | |
| Inflammation, Chronic | | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mixed Cell Focus | | | | | | | X | | X | | | | | | | | | | | | | | | |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mesentery | + | + | + | | | | | | + | | | | | | + | + | | | + | | + | | | |

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
Control | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|---|------------------|
| | 0
7
3
2 | 0
7
3
3 | 0
5
5
1 | 0
7
2
4 | 0
6
6
6 | 0
7
3
3 | 0
7
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2 | 0
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3 | 0
7
2
5 | 0
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1 | 0
7
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8 | 0
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4 | 0
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3 | 0
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| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0
0
1
0
1 | |
| Fat, Necrosis | 2 | | 2 | | 2 | | | | | 2 | | | | | | 2 | 2 | | | 2 | | 2 | | |
| Pancreas
Basophilic Focus
Acinus, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | X
1
2
1 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Stomach, Forestomach
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | |
| Stomach, Glandular
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | + | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | + | |
| Heart
Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1
1
1
1
2
1
1
1
2
1
1
1
1
2
1
1
1 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Hyperplasia
Hypertrophy
Vacuolization Cytoplasmic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2
3
2
2
3
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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Experiment Number: 20303 - 05
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P09: NON-NEOPLASTIC LESIONS 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
Control | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----------------------|------------------|------------------|---|
| | 0
7
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0 | 0
0
1
0 | 0
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0
1
0 | | |
| Hyperplasia | 2 | | | | | 2 | | | 2 | | | | | | | | | | | | | | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Parathyroid Gland
Hyperplasia | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pituitary Gland
Pars Distalis, Angiectasis
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | M | + | + | + | + | + | + | M | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Ovary
Bursa, Dilatation
Interstitial Cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Uterus
Inflammation, Chronic Active
Endometrium, Hyperplasia, Cystic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

HEMATOPOIETIC SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
Control | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|------|
| | 0732 | 0733 | 0735 | 0737 | 0736 | 0737 | 0737 | 0737 | 0737 | 0737 | 0737 | 0736 | 0737 | 0737 | 0737 | 0735 | 0737 | 0737 | 0737 | 0737 | | | 0736 | 0736 | 0736 | 0737 |
| | 0 | 0 | 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 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 2 | 2 | 2 | 2 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow
Hyperplasia, Reticulum Cell | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | | | + |
| Lymph Node, Bronchial
Congestion | M | M | + | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | + | 3 |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | + | M | M |
| Lymph Node, Mediastinal
Ectasia
Hemorrhage
Hyperplasia, Lymphoid | + | M | M | M | M | + | + | M | + | + | + | + | M | M | M | + | + | M | + | + | + | + | + | + | M | M |
| Lymph Node, Mesenteric
Congestion
Hyperplasia, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen
Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Thymus | + | + | + | + | M | + | + | + | + | + | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland
Galactocele
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
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Cyst Epithelial Inclusion

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | | | | | | | | | | | | | | | | | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
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| Control | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | |
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SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | |
| Cornea, Inflammation, Chronic Active | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | 2 | | | | | | | | | | | | | | | | | | | | | | |
| Inflammation, Chronic | | | | | | | | | | | | | | | | | | | | | | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hydronephrosis | | | | 2 | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Oncocytic | | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | 2 | 1 | 1 | | 1 | 1 | 2 | | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Renal Tubule, Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | 2 | 1 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active | | | | 2 | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
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Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0731 | 0739 | 0779 | 0765 | 0773 | 0766 | 0777 | 0766 | 0777 | 0766 | 0777 | 0766 | 0777 | 0766 | 0777 | 0766 | 0777 | 0766 | 0777 | 0766 | 0777 | 0766 | 0777 | 0766 | |
| Control | 001 | 001 | 001 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 | 000 |
| | 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 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 2 1.5 |
| Basophilic Focus | X | X | X | | X | X | X | | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | 46 |
| Clear Cell Focus | X | | | | X | | | | X | | | | | | | X | | X | | X | X | | X | | 15 |
| Eosinophilic Focus | | | | | | | | | | | | X | | | | | | | | | | | | | 6 |
| Fatty Change | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |
| Fatty Change, Focal | | | | | | | | | | | X | | | | | X | | | | | | | | | 2 |
| Fatty Change, Diffuse | 1 | | 1 | | | 1 | 2 | | | | | | 2 | | | 2 | | 1 | | | 1 | | | 1 | 19 1.2 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | X | | | | | | | | | | | | | | 3 |
| Inflammation, Chronic | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 2 | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 42 1.0 |
| Mixed Cell Focus | | | | | | | X | | | | | X | | | | | | | | | | | | | 4 |
| Bile Duct, Hyperplasia | | | 1 | | 1 | 1 | | | | | | 2 | 1 | | | | | | | | | | | 1 | 7 1.1 |
| Mesentery | + | + | | | | + | | | | + | | | | | | | | | | | | | + | | 13 |

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 + .. Tissue examined microscopically
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 I .. Insufficient tissue
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 2) Mild 4) Marked

Experiment Number: 20303 - 05

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 12/12/2011

Test Type: CHRONIC

Vinylidene chloride

Time Report Requested: 09:47:55

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 75-35-4

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

Species/Strain: RATS/F 344/N

Lab: BNW

| FISCHER 344 RATS FEMALE
Control | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|----------|-----|
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| ANIMAL ID | 0
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| Fat, Necrosis | 2 | 2 | | | 2 | | 2 | | | | | | | | | | | 2 | | | | | | | 13 | 2.0 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Basophilic Focus | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Acinus, Atrophy | | 1 | | | | | | 1 | | | | | | | | | | 2 | 1 | | | | | | 9 | 1.2 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Ulcer | | | | | | | | 2 | | | | | | | | | | | | | | | 1 | | 3 | 2.0 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Necrosis | | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Tongue | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cardiomyopathy | 1 | | | | 1 | 1 | 1 | | | | | 2 | 1 | 2 | 1 | 2 | 1 | 1 | | | | | | 1 | 1 | 33 | 1.2 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | 2 | | | 2 | | 2 | 2 | | | | 2 | 2 | 2 | 2 | 2 | | | | | 2 | | | 2 | 30 | 2.1 | |
| Hypertrophy | | | | 2 | | | | | 2 | | | | | | | | | | | | | | 2 | | 7 | 2.3 | |
| Vacuolization Cytoplasmic | | | | | | | | | | | | | | | | | | | | | | | 3 | | 1 | 3.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
 X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate
 I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-----------------|
| | 0731 | 0739 | 0749 | 0756 | 0763 | 0770 | 0776 | 0783 | 0790 | 0797 | 0804 | 0811 | 0818 | 0825 | 0832 | 0839 | 0846 | 0853 | 0860 | 0867 | 0874 | 0881 | 0888 | 0895 | | |
| 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 | | |
| Hyperplasia | | | | 2 | 2 | | | | | | | | | | | | | | | | | | | 2 | 7 2.0 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Parathyroid Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | 1 3.0 |
| Pituitary Gland
Pars Distalis, Angiectasis
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 4 2.0
12 2.5 |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 35 1.3 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NONE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |
| Ovary
Bursa, Dilatation
Interstitial Cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 5 1.8
1 3.0 |
| Uterus
Inflammation, Chronic Active
Endometrium, Hyperplasia, Cystic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 4.0
1 1.0 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

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 Lab: BNW

| FISCHER 344 RATS FEMALE
Control | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|------|--|
| | 0731 | 0739 | 0779 | 0766 | 0773 | 0768 | 0776 | 0763 | 0771 | 0766 | 0774 | 0769 | 0777 | 0764 | 0772 | 0767 | 0775 | 0762 | 0770 | 0765 | 0773 | 0768 | 0771 | 0766 | | 0774 | |
| 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 | | |
| Bone Marrow
Hyperplasia, Reticulum Cell | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 4.0 | | |
| Lymph Node | | | | | | | | | | + | | | | | | | | | | | | | | | 2 | | |
| Lymph Node, Bronchial
Congestion | M | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 4
1 3.0 | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 2 | | |
| Lymph Node, Mediastinal
Ectasia | + | + | + | + | + | + | + | + | + | + | M | + | + | + | M | + | M | M | M | M | + | + | + | + | 33
1 3.0 | | |
| Hemorrhage | | | 3 | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | 2 | | | | | | | | | | | | 1 2.0 | | |
| Lymph Node, Mesenteric
Congestion | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 3.0 | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Spleen
Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
2 2.5 | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Galactoceles | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 2.0 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | 0731 | |
| 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 | 1 |
| ANIMAL ID | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 1 |
| | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 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 |

Cyst Epithelial Inclusion

3

1 3.0

MUSCULOSKELETAL SYSTEM

Bone

+ 50

Skeletal Muscle

+ 1

NERVOUS SYSTEM

Brain

+ 50

RESPIRATORY SYSTEM

Larynx

+ 50

Inflammation, Chronic Active
 Metaplasia, Squamous

3 2 3.0
 1 1.0

Lung

+ 50

Inflammation, Chronic Active
 Alveolar Epithelium, Hyperplasia
 Alveolar Epithelium, Metaplasia, Squamous

1 1.0
 12 1.3
 1 1.0

Nose

+ 50

Foreign Body
 Inflammation, Acute
 Inflammation, Chronic Active
 Olfactory Epithelium, Metaplasia, Respiratory
 Respiratory Epithelium, Hyperplasia

2
 1 3.0
 7 1.4
 1 1.0
 4 1.3

Trachea

+ 50

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 M .. Missing tissue
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 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: 09:47:55
 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 | 0732 | 0730 | 0732 | 0733 | 0733 | 0732 | 0732 | 0731 | 0735 | 0737 | 0735 | 0737 | 0737 | 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 | | |
| | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | |
| | 12 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 10 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | | 1 | | | | | | | | | 2 | | | | | 2 | | | | | | | | |
| Basophilic Focus | X | X | | | X | X | | X | X | X | | X | X | X | | X | X | X | X | X | X | X | X | X | X | |
| Clear Cell Focus | X | | | | X | X | | | | | X | X | | | | X | X | | | X | | X | | X | X | |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Eosinophilic Focus | | X | | X | | X | | X | | | | | | X | X | | | | | | | | | | X | |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fatty Change, Diffuse | 2 | | | | 2 | | | 2 | 2 | | | 1 | | 2 | 2 | 2 | | 2 | 2 | | 2 | 1 | 2 | 1 | 2 | |
| Fibrosis, Focal | | | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| Hepatodiaphragmatic Nodule | X | | | | | | | | | | | | | | | | | | | | | | | X | | |
| Inflammation, Chronic | 1 | 1 | 1 | 1 | 1 | 1 | | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| Mixed Cell Focus | | | | | X | X | | X | | X | | | | X | | X | | X | | | | | X | | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Mesentery | | | | + | + | + | | | | | | + | + | | | | + | + | | | | | + | + | + | |

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 + .. Tissue examined microscopically
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 I .. Insufficient tissue
 M .. Missing tissue
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Experiment Number: 20303 - 05
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
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 Lab: BNW

| FISCHER 344 RATS FEMALE

25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | 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
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
3 | 0
7
3
3 | 0
7
3
2 | |
| | 0
3
0
1 | 0
0
3
2 | 0
0
3
3 | 0
0
3
4 | 0
0
3
5 | 0
0
3
6 | 0
0
3
7 | 0
0
3
8 | 0
0
3
9 | 0
0
3
0 | 0
0
3
1 | 0
0
3
2 | 0
0
3
3 | 0
0
3
4 | 0
0
3
5 | 0
0
3
6 | 0
0
3
7 | 0
0
3
8 | 0
0
3
9 | 0
0
2
0 | | 0
0
2
1 | 0
0
2
2 | 0
0
2
3 | 0
0
2
4 |
| Inflammation, Chronic Active
Fat, Necrosis | 2 | | 2 | 2 | | | | | | | 2 | | 2 | | | | 2 | | | | 2 | 2 | | 2 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pancreas
Acinus, Atrophy
Acinus, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | 1 | | | 1 | | 1 | 1 | | | | | 2 | | 4 | | 1 | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach
Hyperplasia, Squamous
Necrosis
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | 3 | | | | | | | | | | | |
| Stomach, Glandular
Mineralization
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | 2 | | | | | | | 2 | | | | 1 | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | + | | | | | | | | | | |
| Heart
Cardiomyopathy
Thrombosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | 1 | | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | 3 | | 1 | | 1 | 2 | 1 | 1 | 1 | 2 | 1 | | 2 | 1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

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| | | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|--|
| | | 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
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
3 | 0
7
3
4 | 0
7
3
5 | females
(cont...) | | | | | | | | | | | | | | |
| | | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 ppm | | 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 | 0
0
3
0
6 | 0
0
3
0
7 | 0
0
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 | 0
0
3
0
6 | 0
0
3
0
7 | 0
0
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 | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia | | | | | 1 | 2 | 2 | | 2 | | 2 | 2 | 2 | | | | | 2 | 2 | 2 | 2 | | | | | | | | 2 | 2 | | | | | | | | | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | 2 | 2 | 2 | | | | | | | | | | | | 2 | 2 | | | | | |
| Adrenal Medulla | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | | | | | | | | | | | | 2 | | | | | | 2 | 2 | | | | | | | | | | | | 2 | 2 | | | | | |
| Islets, Pancreatic | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | |
| Parathyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | M | | |
| Pituitary Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | |
| Pars Distalis, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | |
| Thyroid Gland | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| C-cell, Hyperplasia | | | | 2 | 2 | | 2 | 3 | | 2 | | 3 | 2 | 1 | | | | | 2 | 2 | | 1 | 2 | 1 | 1 | 1 | | | | | | | | | | | 1 | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|-----------|----------------------|
| | 0732 | 0733 | 0735 | 0731 | 0733 | 0732 | 0740 | 0772 | 0763 | 0773 | 0773 | 0754 | 0775 | 0755 | 0773 | 0773 | 0766 | 0776 | 0744 | 0777 | 0777 | 0777 | 0777 | | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 000000000000000000000000 | | |
| | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 333333333333333333333333 | | |
| | 2 | 3 | 5 | 1 | 2 | 2 | 0 | 2 | 3 | 3 | 2 | 2 | 1 | 9 | 1 | 2 | 1 | 7 | 1 | 2 | 1 | 2 | 2 | 000000000000000000000000 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Bursa, Dilatation | | | | 4 | | | | | | | 4 | | | 3 | | | | | | | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | 3 | | | | | | | |
| Vagina | | | | | | | | | | | + | | | | | | | | | | | | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | |
| Lymph Node, Bronchial
Hyperplasia, Lymphoid | M | M | M | M | M | M | + | M | M | M | M | M | M | M | M | + | M | M | M | M | M | M | M | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | |
| Lymph Node, Mediastinal
Hyperplasia, Lymphoid
Hyperplasia, Plasma Cell | M | M | M | + | M | + | M | + | M | + | + | + | M | M | M | + | M | M | + | M | + | M | + | 2
2 |
| Lymph Node, Mesenteric
Hyperplasia, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 4 |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Hemorrhage | | | 2 | | | | | | | | | | | | | | | | | | | | | |
| Hyperplasia, Lymphoid
Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
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
7
3
2 | | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | M | I | + | + | + | M | + | + | + | + | M | + | + | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland
Galactoceles
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Skin
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain
Hydrocephalus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx
Inflammation, Chronic Active
Metaplasia, Squamous | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lung
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bronchiole, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Foreign Body | | X | | | | | | | | | | | X | | | | | | | | | | X | | | | | |
| Inflammation, Chronic Active | | 1 | 3 | 1 | 1 | 2 | 1 | | | 1 | 3 | 1 | 1 | 4 | 2 | 1 | 2 | 1 | | 3 | 1 | 2 | 1 | 2 | 3 | | | |
| Thrombosis | | | | | | | 1 | | | | | | | | | | | | | 2 | | | | | | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | 2 | 2 | 4 | 3 | 2 | 3 | 2 | 2 | 2 | 2 | 3 | 3 | 2 | 4 | 3 | 2 | 3 | 2 | 2 | 4 | 2 | 3 | 3 | 3 | 3 | | | |
| Respiratory Epithelium, Hyperplasia | | | 2 | | 1 | | | | | | | 1 | | 2 | | | | | | 2 | | | | | 2 | | | |
| Turbinates, Atrophy | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| Turbinates, Hyperostosis | 2 | 2 | 1 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 2 | 3 | | | |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Eye | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cataract | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | |
| Degeneration | | | | | | | | | | | | | | | | | | | | | 4 | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | 2 | | 4 | | 2 | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | |
| Hydronephrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | females
(cont...) |
|---------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
| DAY ON TEST | | 7 | 7 | 6 | 7 | 7 | 7 | 4 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 4 | 7 | 7 | 7 | 7 | 7 | 7 | |
| FISCHER 344 RATS FEMALE | | 3 | 3 | 7 | 3 | 3 | 3 | 7 | 1 | 5 | 3 | 3 | 3 | 4 | 1 | 7 | 3 | 3 | 1 | 6 | 3 | 5 | 3 | 0 | 3 | 3 | 3 | 3 | |
| 25 ppm | | 2 | 3 | 5 | 1 | 2 | 2 | 0 | 2 | 3 | 3 | 2 | 2 | 1 | 9 | 1 | 2 | 1 | 7 | 1 | 2 | 1 | 2 | 1 | 2 | 2 | 2 | 2 | females
(cont...) |
| 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 | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | females
(cont...) |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephropathy | | 2 | 2 | | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 3 | 1 | | 1 | 1 | 2 | 2 | 3 | 2 | | 1 | | 2 | 4 | 2 | | | |
| Papilla, Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Renal Tubule, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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Experiment Number: 20303 - 05
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 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: 09:47:55
 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 | 0675 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | 0677 | | |
| ANIMAL ID | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | | |
| Inflammation, Chronic Active Fat, Necrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0
19 2.0 | |
| Oral Mucosa | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Acinus, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 13 1.5 | | |
| Acinus, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | 4 2.0 | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blood Vessel | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cardiomyopathy | | | | | | | | | | | | | | | | | | | | | | | | 34 1.4 | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-----------------------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------|----------------|-----|-----|
| | 06
61 | 07
73
33 | 07
73
32 | 05
53
55 | 07
73
31 | 07
73
31 | 07
73
31 | 07
73
31 | 06
68
99 | 06
63
99 | 05
53
91 | 06
66
99 | 06
65
99 | 06
63
95 | 06
66
93 | 06
66
94 | 06
66
90 | 07
73
93 | 07
73
93 | 07
73
92 | 06
66
91 | 06
66
90 | 07
73
91 | 07
73
92 | | 07
73
90 | | |
| 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 | 00360 | | | |
| Hematopoietic Cell Proliferation | | | 3 | | | | | | | | | | | | | | | | | | | | | | | 2 | 3.0 | |
| Hyperplasia | 2 | | | 2 | | | | | | 2 | 2 | 2 | | | | 2 | | 2 | 2 | 2 | | | 2 | 2 | 2 | 2 | 28 | 2.0 |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2.0 |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | 1 | | | | | 2 | | | | | | | | | | 2 | | | 3 | | | 2 | 10 | 2.0 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | 46 | | |
| Pituitary Gland | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | 3 | | | 2 | 4 | 2.8 | |
| Pars Distalis, Hyperplasia | | | | | | | | | | 2 | | | | | | 2 | | | | | | | | 2 | | 6 | 2.5 | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| C-cell, Hyperplasia | 1 | 2 | 2 | 1 | 1 | 3 | | 2 | | | | | 1 | 1 | | | 1 | 1 | | 2 | | | 3 | | 2 | 30 | 1.7 | |
| Follicular Cell, Hyperplasia | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| Hyperplasia | | | | | | | | 3 | 2 | | | | | | | | | | | | | | | | 2 | 4 | 2.0 | |
| Inflammation, Chronic Active | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | 1 | 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|----------------------|------|--|
| | 0661 | 0733 | 0732 | 0535 | 0771 | 0771 | 0773 | 0773 | 0773 | 0681 | 0669 | 0561 | 0669 | 0666 | 0666 | 0666 | 0773 | 0773 | 0773 | 0666 | | 0666 | 0667 | 0777 | 0777 | 0777 | |
| 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 | 00360 | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Bursa, Dilatation | 3 | | | | | 3 | | | | | 2 | 3 | 4 | | | 3 | | | | | | 2 | | 3 | 11 3.1 | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Vagina | | | | | | | | | | | + | | | | | | | | | | | | | | 2 | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymph Node | | | | | | | | | | | | | | | | | + | | | | | + | | | 2 | | |
| Lymph Node, Bronchial
Hyperplasia, Lymphoid | M | M | M | M | M | + | M | M | M | M | M | M | M | M | + | + | M | M | M | + | + | M | M | M | 7
1 2.0 | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 0 | | |
| Lymph Node, Mediastinal
Hyperplasia, Lymphoid
Hyperplasia, Plasma Cell | M | M | M | + | M | + | + | + | + | M | + | M | + | M | + | M | + | + | + | M | M | + | + | + | 26
1 2.0
1 2.0 | | |
| Lymph Node, Mesenteric
Hyperplasia, Lymphoid | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 4.0 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | 3 | | | 1 3.0 | | |
| Inflammation, Granulomatous | | | | | | 4 | | | | | | | | | | | | | | | | | | | 1 4.0 | | |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 20303 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | |
|-----------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|------|--|
| | 0661 | 0673 | 0673 | 0675 | 0677 | 0677 | 0677 | 0677 | 0677 | 0668 | 0666 | 0656 | 0666 | 0666 | 0666 | 0666 | 0677 | 0677 | 0677 | 0666 | | 0666 | 0666 | 0677 | 0677 | 0677 | |
| ANIMAL ID | 00326 | 00307 | 00308 | 00309 | 00310 | 00311 | 00312 | 00313 | 00314 | 00315 | 00316 | 00317 | 00318 | 00319 | 00320 | 00321 | 00322 | 00323 | 00324 | 00325 | 00326 | 00327 | 00328 | 00329 | 00330 | | |
| Inflammation, Acute | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 45 | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Galactocele | | | | | | | | | | | | | | 3 | | | | | | | | 2 | | | 2 2.5 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Skeletal Muscle | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hydrocephalus | 2 | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 2 3.0 | | |
| Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | 3 2.3 | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Inflammation, Chronic Active | | | | | | | | | | | | | | | | | | | | | | | | | 1 1.0 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
25 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------|----------------|----------------|--------|--------|--------|
| | 06
61 | 07
63
32 | 07
73
32 | 05
73
55 | 07
73
31 | 07
73
31 | 07
73
31 | 07
73
31 | 06
68
99 | 06
63
99 | 05
63
51 | 06
66
39 | 06
66
34 | 06
66
34 | 06
66
34 | 07
77
33 | 07
77
33 | 07
77
32 | 06
66
31 | 06
66
91 | | 07
77
33 | 07
77
33 | | | |
| 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 | | | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | 1 | 1 | | | | | 1 | | | | 1 | | | | | 1 | 13 1.3 | | |
| Bronchiole, Hyperplasia | | | | | | 2 | 2 | | | | | | | | | | | | | | | | | 2 2.0 | | |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Foreign Body | | | | | | | | | | | | | | | | | | | X | | | | 4 | | | |
| Inflammation, Chronic Active | 2 | 1 | 1 | 2 | 2 | 2 | 1 | 3 | 1 | | 1 | 2 | 1 | 1 | 1 | 4 | 2 | 1 | 1 | 3 | 4 | 2 | 1 | 1 | 3 | 45 1.8 |
| Thrombosis | | | | 4 | | | | | | | | | | | | | | | | | | | | 3 2.3 | | |
| Olfactory Epithelium, Metaplasia, Respiratory | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 4 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 2 | 3 | 3 | 4 | 50 2.8 |
| Respiratory Epithelium, Hyperplasia | | | | | | 1 | | 1 | | | | | | | | 1 | | | | 2 | 2 | | | 2 | 12 1.6 | |
| Turbinate, Atrophy | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 50 2.8 | |
| Turbinate, Hyperostosis | 1 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | 2 | 3 | 1 | 2 | 2 | 2 | 1 | 2 | 3 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 50 1.9 |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | 1 3.0 | | |
| Degeneration | | | | | | | | | | | | | | | | | | 4 | | | 4 | | | 3 4.0 | | |
| Retina, Atrophy | | | | | | | | | | | | 2 | | | | | | | | | | | | 4 2.5 | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |
| Hydronephrosis | | | | | | | | | | | | 3 | | | | | | | | | | | | 1 3.0 | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
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Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
25 ppm | DAY ON TEST | 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 | | | |
| | | 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 |
| 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 3 | 5 | 3 | 2 | 3 | 9 | 0 | 3 | 3 | 3 | 1 | 9 | 1 | 3 | 3 | 3 | | | | |
| 1 | 3 | 2 | 5 | 1 | 1 | 1 | 1 | 9 | 9 | 1 | 9 | 5 | 3 | 4 | 0 | 3 | 3 | 2 | 3 | 1 | 0 | 1 | 2 | 2 | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | |
| 2 | 2 | 2 | 2 | 3 | 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 | 0 | | | | |
| | | * TOTALS | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mineralization | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | | |
| Nephropathy | 2 | | 2 | | 1 | 2 | | 1 | 1 | 3 | | 1 | 1 | 1 | 2 | | 2 | 2 | 3 | 1 | 1 | | 1 | 2 | 4 | 40 | 1.8 | |
| Papilla, Necrosis | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Renal Tubule, Hyperplasia | | | | | 2 | | | | | | | | | | | | | 3 | | | | | | | | | 2 | 2.5 |
| Urinary Bladder | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Vinylidene chloride
 CAS Number: 75-35-4

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

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

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon Cyst | A | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis | 1 | | | | | | | 1 | | | | | | | 2 | | | | | | | | |
| Basophilic Focus | | X | X | X | X | X | X | | | X | X | X | | 2 | X | X | X | | | X | | X | X |
| Clear Cell Focus | | | X | X | | X | X | | | | X | X | | | | X | | | | | X | X | X |
| Degeneration, Cystic | | | | | | | | | | | | | | | | | | | | | | | |
| Eosinophilic Focus | | | X | | | | X | | | | | | | | X | X | 3 | | | X | | | X |
| Fatty Change, Focal | | | | | X | | | | X | | | | | | | | | | | | X | | |
| Fatty Change, Diffuse | 2 | 2 | | 2 | | 1 | | | | | 3 | | | | 1 | 2 | 3 | | | 2 | | 1 | 1 |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | X | | | X | X | | | | | | | |
| Inflammation, Chronic | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 1 | 1 |
| Mixed Cell Focus | | | | | | X | | | X | X | | | | | X | X | X | X | | X | | X | X |
| Necrosis | | | | | | | 3 | | | | | | | | | | | | | | | | 2 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | 2 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | | | | |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|---|---|---|---|---|---|---|
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3 | 0
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2 | 0
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1 | | | | | | | | | |
| Mesentery | + | | | + | | | + | | + | | | | | | | | | | + | + | + | | + | + | | + | + | | |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fat, Necrosis | 2 | | | 2 | | | | | 2 | 2 | | | | | | | | | 2 | 2 | 2 | | 2 | 2 | | 2 | 2 | | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Acinus, Atrophy | | | | | | 1 | | | | | | | 2 | 3 | | | | | | | | 4 | | | | 1 | | | |
| Acinus, Hyperplasia | | | | | | | | | 2 | | | | | | | | | | 1 | | | | | | | | | | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Basophilic Focus | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Hyperplasia, Squamous | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Ulcer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Cardiomyopathy | 2 | 2 | 1 | | 1 | 1 | | | | | | 1 | | | | | | 2 | 1 | 1 | 1 | 1 | | | 2 | 2 | 1 | 1 | 1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | 2 | | 2 | 2 | | | | 2 | | 2 | 2 | 2 | | | | | | | 2 | | 1 | | 2 | | 2 | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---|-----------|----------------------|
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3 | 0
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2 | 0
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1 | 0
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3
2 | 0
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3
2 | | | |
| Hyperplasia | | | | | | | | 2 | 2 | | 2 | | | | | | | | | | | | | 1 | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Parathyroid Gland
Angiectasis | + | + | M | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | M | + | | | |
| Pituitary Gland
Pars Distalis, Angiectasis
Pars Distalis, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | | |
| Thyroid Gland
C-cell, Hyperplasia | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | | 1 | | 1 | | 1 | | 2 | 2 | 1 | 2 | | 1 | | | 1 | 1 | 2 | | | 1 | 2 | 2 | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland
Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | | | |
| Ovary
Cyst
Bursa, Dilatation
Follicle, Cyst
Periovarian Tissue, Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | | | | 3 | | | | 3 | 4 | 4 | | | | 4 | | 4 | | | 2 | | | 3 | 2 | | | |
| Uterus
Endometrium, Hyperplasia, Cystic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| | | | | | | | | 4 | | | | | | | | | | | | | | | | | | |

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE

50 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 | 0 | 0 | | |
| | 5 | 7 | 7 | 5 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 6 | 6 | | |
| | 8 | 3 | 3 | 6 | 3 | 3 | 3 | 7 | 3 | 3 | 3 | 2 | 7 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | 3 | 3 | 3 | | |
| | 3 | 1 | 2 | 3 | 2 | 3 | 4 | 2 | 2 | 3 | 1 | 3 | 1 | 0 | 2 | 2 | 1 | 3 | 3 | 2 | 1 | 2 | 2 | | |
| ANIMAL ID | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| | 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 | 0 | 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 | | |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | + | |
| Deep Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| Lymph Node, Bronchial | M | M | M | + | M | M | M | M | M | M | M | M | M | M | + | M | M | + | M | M | M | M | M | | |
| Lymph Node, Mandibular | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | | |
| Lymph Node, Mediastinal Hemorrhage | + | M | + | + | M | + | M | M | + | M | M | + | + | + | M | + | M | + | M | + | + | + | M | M | + |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 3 | |
| Thymus | + | + | + | + | M | + | M | M | + | + | + | + | + | M | + | + | M | + | + | + | + | + | M | + | + |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactocele | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Skin | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperkeratosis | | | | | | | | | | | | | | | | | | | | | | | | 2 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 20303 - 05
 Test Type: CHRONIC
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 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|
| | 0526 | 0533 | 0668 | 0771 | 0754 | 0771 | 0776 | 0766 | 0777 | 0777 | 0777 | 0755 | 0777 | 0755 | 0777 | 0777 | 0744 | 0777 | 0777 | 0744 | | 0777 | | |
| 50 ppm | 0026 | 0057 | 0008 | 0001 | 0004 | 0001 | 0009 | 0003 | 0001 | 0006 | 0009 | 0004 | 0003 | 0009 | 0002 | 0003 | 0003 | 0002 | 0003 | 0003 | 0003 | 0001 | 0005 | 0002 |
| ANIMAL ID | 0052 | 0052 | 0052 | 0052 | 0053 | 0053 | 0053 | 0053 | 0053 | 0053 | 0053 | 0053 | 0053 | 0053 | 0054 | 0054 | 0054 | 0054 | 0054 | 0054 | 0054 | 0054 | 0055 | 0059 |

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Large, Colon Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | + | + | + | + | + | + | + | 48
1 3.0 |
| Intestine Large, Rectum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Angiectasis | | | | 3 | | | | | | | | | | | | | | | | | | | | | 4 1.8 |
| Basophilic Focus | | X | X | X | | X | X | | X | X | X | | | X | X | X | | X | X | X | | X | X | | 32 |
| Clear Cell Focus | | X | | X | | X | | | X | | | | X | X | X | | X | X | | X | X | | X | | 22 |
| Degeneration, Cystic | | | | | | 2 | | | 2 | | | | | | | | 2 | | | | | | | | 4 2.3 |
| Eosinophilic Focus | | | | X | | | | | | | | | | | | | | | | | | | | | 7 |
| Fatty Change, Focal | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| Fatty Change, Diffuse | | | 1 | | 1 | 3 | 1 | 4 | | 1 | | 1 | 1 | | 2 | 1 | | 1 | | 1 | | 1 | 2 | 2 | 26 1.7 |
| Hepatodiaphragmatic Nodule | | | | | X | | | | | | | | | | | | | | | | | | | | 4 |
| Inflammation, Chronic | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 49 1.4 |
| Mixed Cell Focus | | | | | | | | | | | | | | | X | | | | | | | | | | 12 |
| Necrosis | 1 | | | | | | | | | 2 | | 3 | | | | | | | | | | | | | 5 2.2 |
| Bile Duct, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|-----------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|--------|--------|
| | 0526 | 0533 | 0568 | 0573 | 0575 | 0577 | 0576 | 0566 | 0577 | 0577 | 0577 | 0575 | 0577 | 0575 | 0577 | 0577 | 0574 | 0577 | 0577 | 0577 | | 0574 | 0577 | 0577 |
| ANIMAL ID | 0052 | 0055 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | 0050 | |
| Mesentery | | | + | | | | | | + | | | | | + | + | + | | + | + | | + | + | 23 | |
| Fat, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Fat, Necrosis | | | 2 | | | | | | 2 | | | | | 2 | 2 | 2 | | 2 | 2 | | 2 | 2 | 22 2.0 | |
| Pancreas | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 | |
| Acinus, Atrophy | | | | 4 | | | | | | 2 | | | | 1 | 3 | 1 | | | | 1 | | | 11 2.1 | |
| Acinus, Hyperplasia | | | | | | 2 | | | | | | | | | | | | | | | | | 3 1.7 | |
| Salivary Glands | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Basophilic Focus | | | | X | | | | | | | | | | | | | | | | | | | 2 | |
| Stomach, Forestomach | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia, Squamous | | | | 1 | | | | | | | | | | | | | | | | | | | 2 1.5 | |
| Ulcer | | | | | | | | | | 2 | | | | | | | | | | | | | 1 2.0 | |
| Stomach, Glandular | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Necrosis | | | | | 2 | | | | | | | | | | | | | | | | | | 1 2.0 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Cardiomyopathy | | | 1 | 2 | | 1 | | | | | 1 | 1 | 1 | | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 32 1.3 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Hyperplasia | | | 2 | 2 | | | 2 | 2 | | | 2 | 2 | | | 2 | | | | 2 | | | | 20 2.0 | |
| Hypertrophy | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically M .. Missing tissue 1-4 .. Lesion qualified as:
 X .. Lesion present A .. Autolysis precludes evaluation 1) Minimal 3) Moderate
 I .. Insufficient tissue BLANK .. Not examined microscopically 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
50 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-------|--------------|-------------|-------------|
| | 0526 | 0533 | 0538 | 0541 | 0545 | 0547 | 0556 | 0566 | 0577 | 0577 | 0577 | 0577 | 0577 | 0577 | 0577 | 0577 | 0577 | 0577 | 0577 | 0577 | | 0577 | | | |
| ANIMAL ID | 0052 | 0055 | 0058 | 0060 | 0061 | 0062 | 0063 | 0064 | 0065 | 0066 | 0067 | 0068 | 0069 | 0070 | 0071 | 0072 | 0073 | 0074 | 0075 | 0076 | 0077 | | | | |
| Hyperplasia | 1 | 2 | | | | 2 | | | 2 | | | | | | 2 | | | | | | | 9 1.8 | | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| Parathyroid Gland
Angiectasis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | 45
1 4.0 | |
| Pituitary Gland
Pars Distalis, Angiectasis | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | 49
4 2.3 | | |
| Pars Distalis, Hyperplasia | | | 2 | | 2 | | | | | | | | | | | | | | 3 | 2 | | | 12 2.4 | | |
| Thyroid Gland
C-cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48
32 1.3 | | |
| 1 | 1 | 1 | | 1 | | | | 2 | 1 | 1 | 1 | 3 | 1 | | 1 | 1 | | 1 | 2 | | 1 | 1 | | | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland
Hyperplasia | + | M | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | 45
1 2.0 |
| Ovary
Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 3.0 | |
| Bursa, Dilatation | 3 | 3 | | | 3 | | | | 3 | 3 | | | 4 | | | | | 2 | | | | 3 | | 17 3.1 | |
| Follicle, Cyst | | | 2 | | | | | | | | | | | | | | | | | | | | | 1 2.0 | |
| Periovarian Tissue, Cyst | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 2.0 | |
| Uterus
Endometrium, Hyperplasia, Cystic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50
1 4.0 | | |

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

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 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | |
|-------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|----|
| | 0526 | 0533 | 0538 | 0541 | 0545 | 0547 | 0550 | 0553 | 0556 | 0559 | 0562 | 0565 | 0568 | 0571 | 0574 | 0577 | 0580 | 0583 | 0586 | 0589 | | 0592 | |
| 50 ppm | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID | 0052 | 0055 | 0058 | 0061 | 0064 | 0067 | 0070 | 0073 | 0076 | 0079 | 0082 | 0085 | 0088 | 0091 | 0094 | 0097 | 0100 | 0103 | 0106 | 0109 | 0112 | 0115 | 29 |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lymph Node | | | | | | | | | | | | | | | | | | | | | | | | 4 | | |
| Deep Cervical, Hemorrhage | | | | | | | | | | | | | | | | | | | | | | | | 1 | 3.0 | |
| Deep Cervical, Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| 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 | 1 | | |
| Lymph Node, Mediastinal Hemorrhage | M | M | + | + | + | M | M | + | M | M | M | M | + | M | + | + | + | + | + | M | + | + | + | 29 | 1 | 2.0 |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.0 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | 3 | 2 | 3.0 |
| Thymus | + | + | + | M | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 42 | | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Mammary Gland Galactocele | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 3.0 |
| Skin Hyperkeratosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
50 ppm | 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
1 | 0
7
3
2 | 0
7
3
3 | 0
4
2
1 | | 0
7
1
5 | 0
7
3
2 | | |
| ANIMAL ID | 0
0
5
2
6 | 0
0
5
2
7 | 0
0
5
2
8 | 0
0
5
2
9 | 0
0
5
3
0 | 0
0
5
3
1 | 0
0
5
3
2 | 0
0
5
3
3 | 0
0
5
3
4 | 0
0
5
3
5 | 0
0
5
3
6 | 0
0
5
3
7 | 0
0
5
3
8 | 0
0
5
3
9 | 0
0
5
4
0 | 0
0
5
4
1 | 0
0
5
4
2 | 0
0
5
4
3 | 0
0
5
4
4 | 0
0
5
4
5 | 0
0
5
4
6 | 0
0
5
4
7 | 0
0
5
4
8 | 0
0
5
4
9 | 0
0
5
5
0 |
| Inflammation, Chronic Active | 3 | | | | | | | | | | | | | | | | | | | | 1 3.0 | | | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Hyperostosis | + | | | | | | | | | | | | | | | | | | | | 50 | 1 3.0 | | | |
| Skeletal Muscle Fibrosis | + | | | | | | | | | | | | | | | | | | | | 3 | 1 3.0 | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain | + | | | | | | | | | | | | | | | | | | | | 50 | | | | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx Inflammation, Chronic Active | + | | | | | | | | | | | | | | | | | | | | 50 | 1 2.0 | | | |
| Lung Hemorrhage | + | | | | | | | | | | | | | | | | | | | | 50 | 1 1.0 | | | |
| Lung Inflammation, Chronic Active | + | | | | | | | | | | | | | | | | | | | | 50 | 1 1.0 | | | |
| Lung Alveolar Epithelium, Hyperplasia | + | | | | | | | | | | | | | | | | | | | | 50 | 13 1.3 | | | |
| Lung Alveolar Epithelium, Metaplasia, Squamous | + | | | | | | | | | | | | | | | | | | | | 50 | 2 1.5 | | | |
| Lung Alveolus, Infiltration Cellular, Histiocyte | + | | | | | | | | | | | | | | | | | | | | 50 | 2 1.5 | | | |
| Lung Bronchiole, Hyperplasia | + | | | | | | | | | | | | | | | | | | | | 50 | 1 2.0 | | | |
| Nose Inflammation, Chronic Active | + | | | | | | | | | | | | | | | | | | | | 50 | 46 2.0 | | | |
| Nose Thrombosis | + | | | | | | | | | | | | | | | | | | | | 50 | 2 2.0 | | | |
| Nose Olfactory Epithelium, Metaplasia, Respiratory | + | | | | | | | | | | | | | | | | | | | | 50 | 50 3.1 | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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| 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 | | | | | |
| Olfactory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | | | |
| Respiratory Epithelium, Hyperplasia | | | | | | 2 | | 2 | | | 3 | | | | | | | | 1 | | 2 | 14 | 1.7 | | | |
| Turbinate, Atrophy | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | |
| Turbinate, Hyperostosis | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 1 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 1 | 2 | 2 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Cataract | | | | | | | 3 | | | | | | | | | | | | | 2 | | | | 3 | 2.3 | |
| Degeneration | | | | | | | | | | | | | | | | | | 4 | | | | | | 1 | 4.0 | |
| Retina, Atrophy | | | | | | | 4 | | | | | | | | | | | | | | 2 | | | 3 | 3.0 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | |
| Cytoplasmic Alteration | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Zymbal's Gland | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Hyperplasia, Oncocytic | | 1 | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 | |
| Nephropathy | | 1 | 1 | 2 | | 1 | 2 | 1 | 2 | 2 | | 1 | 1 | 1 | 1 | 2 | | 2 | 1 | 2 | 1 | 2 | 1 | 1 | 43 | 1.4 |
| Renal Tubule, Necrosis | | | | | 2 | | | | | | | | | | | | | | | | | | | | 1 | 2.0 |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 50 | |

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Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Vinylidene chloride

CAS Number: 75-35-4

Date Report Requested: 12/12/2011

Time Report Requested: 09:47:55

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

Lab: BNW

| DAY ON TEST | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
|--------------------------------|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FISCHER 344 RATS FEMALE | 6 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 6 | 6 | 7 | 7 | 6 | 5 | 7 | 6 | 7 | 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 | |
| | 6 | 5 | 5 | 3 | 4 | 5 | 2 | 1 | 2 | 7 | 2 | 3 | 5 | 7 | 1 | 3 | 6 | 9 | 2 | 2 | 2 | 5 | 0 | 5 | 3 | |
| | 100 ppm | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 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 | | |
| | | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |

females (cont...)

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Cecum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Colon | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Large, Rectum | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Ileum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Intestine Small, Jejunum | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Liver | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Angiectasis | | | 2 | 2 | | | | | | | | | | | | | | | | | | | | | |
| Basophilic Focus | | | X | X | X | | X | X | X | X | | | X | | X | X | | X | | | | X | X | X | |
| Clear Cell Focus | | | | | | | X | X | X | X | X | X | X | | X | | | | X | | | | | X | |
| Degeneration, Cystic | | | 2 | | | | | | | | | 2 | | 3 | | | | | | | | | | | |
| Eosinophilic Focus | | | | | | | X | | | | | | | X | | | X | | X | | | | | | |
| Fatty Change, Diffuse | | | 2 | 2 | 2 | | 3 | | | 2 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | | 1 | | 1 | 2 | 4 | 2 | |
| Hepatodiaphragmatic Nodule | | | | | | | | | | | | | | | | | X | | | | | | | | |
| Inflammation, Chronic | 2 | | 2 | 3 | 3 | 4 | 1 | 1 | 1 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 4 | 1 | 2 | 1 | 1 | 1 | 3 | 3 | 3 |
| Mixed Cell Focus | | | | | | | X | | | | X | | | X | | | | X | | | | | | | |
| Necrosis | | | | | | 2 | | | | 1 | | | | | | 2 | | 2 | | | | | | | |
| Bile Duct, Hyperplasia | 1 | | | | | | | | | | | | | | 1 | | | | | | | 1 | 2 | | |
| Mesentery | | + | | + | + | | | + | + | | + | + | + | | | + | | + | + | | | | | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|---|
| | 0656 | 0377 | 0777 | 0777 | 0777 | 0777 | 0777 | 0656 | 0577 | 0577 | 0677 | 0677 | 0677 | 0677 | 0777 | 0777 | 0677 | 0577 | 0777 | 0677 | 0677 | 0677 | 0677 | 0677 | | | 0677 | 0677 | |
| Fat, Necrosis | 2 | | 2 | 2 | | | | 2 | 2 | | | 2 | 2 | | | 2 | | 2 | 2 | | | | | | | 2 | | | |
| Oral Mucosa
Pharyngeal, Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | + | 3 | | |
| Pancreas
Acinus, Atrophy
Acinus, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Salivary Glands
Atrophy
Basophilic Focus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Stomach, Forestomach
Hyperplasia, Squamous
Ulcer | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Heart
Cardiomyopathy
Thrombosis
Pericardium, Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex
Degeneration, Cystic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
| | 0656 | 0375 | 0773 | 0773 | 0772 | 0777 | 0777 | 0665 | 0577 | 0577 | 0663 | 0663 | 0773 | 0773 | 0666 | 0665 | 0777 | 0776 | 0776 | 0667 | 0666 | 0666 | 0777 | 0773 | | |
| Hyperplasia | 2 | | 2 | | 2 | | 2 | 2 | 2 | 1 | | 3 | 2 | | | | 2 | 2 | | | 2 | 2 | | | | |
| Hypertrophy | | | | | | | | | 2 | | | | | | | | | | | | | | | | | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Necrosis | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Medulla | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Hyperplasia | | | | | | | | | | | | | | 2 | | 2 | | | 2 | 2 | | 2 | | 2 | | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Parathyroid Gland | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pars Distalis, Hyperplasia | | | | | | 2 | | 2 | | | 2 | 2 | | | | | | 2 | | | | | | | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| C-cell, Hyperplasia | 2 | | 1 | | | 1 | 1 | | 1 | | 1 | 2 | 1 | 1 | 2 | 1 | | 1 | | 2 | 1 | 1 | 1 | | | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | 2 | | | |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | + |
| Mesothelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | 1 |

GENITAL SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 20303 - 05
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 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | females
(cont...) |
|------------------------------------|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|----------------------|
| | 0656 | 0375 | 0773 | 0773 | 0777 | 0777 | 0777 | 0777 | 0665 | 0577 | 0776 | 0776 | 0666 | 0666 | 0777 | 0777 | 0666 | 0577 | 0776 | 0776 | 0667 | 0667 | 0667 | 0777 | | |
| ANIMAL ID | 0070 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | 0077 | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cyst
Bursa, Dilatation | | 2 | | 3 | 4 | | | 4 | | | 4 | | | 2 | | | 3 | 3 | 3 | | | 4 | 2 | | | 4 | |
| Uterus
Endometrium, Hyperplasia, Cystic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | | | + |

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|--|--|--|--|---|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | |
| Lymph Node | | | | | | | | + | | | | | | | | | | | | | | | | | | | + | | | | | | | | |
| Lymph Node, Bronchial
Hyperplasia, Lymphoid
Infiltration Cellular, Histiocyte | + | 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, 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
Ectasia | + | + | + | + | + | + | + | + | M | M | + | + | + | M | + | + | + | M | + | + | + | + | + | + | + | M | | | | | | | | | |
| Lymph Node, Mesenteric
Hyperplasia, Lymphoid
Inflammation, Granulomatous | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | |
| Spleen
Fibrosis
Hematopoietic Cell Proliferation
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | 4 | | | | | 3 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
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 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...) | | | | |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|------------------|------------------|------------------|
| | 0
6
5
6 | 0
3
9
5 | 0
7
0
5 | 0
7
3
3 | 0
7
0
4 | 0
7
2
5 | 0
7
3
2 | 0
7
3
1 | 0
6
4
2 | 0
5
6
7 | 0
7
3
2 | 0
7
3
3 | 0
6
5
5 | 0
6
7
7 | 0
7
3
1 | 0
6
5
6 | 0
5
7
9 | 0
7
1
2 | 0
6
4
2 | 0
7
3
2 | | | 0
6
4
5 | 0
6
7
0 | 0
6
5
3 | 0
7
5
5 |
| Thymus | + | + | + | + | + | + | + | + | + | + | + | M | + | M | + | M | M | + | + | + | + | M | + | M | + | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Skin
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain
Necrosis | + | + | + | + | + | + | 2 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lung
Thrombosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | | | 1 | | | | | 1 | | | | | 1 | 4 | | |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | 2 | | | | | | | | | | 1 | | | | | | |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | 1 | | | | | | | | | | | | | | | |
| Bronchiole, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nose
Foreign Body | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| | | | | | | | X | | | | | X | | | | | | | | | X | | | | | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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| FISCHER 344 RATS FEMALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | ANIMAL ID | females
(cont...) | | | | |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------|----------------------|------------------|------------------|------------------|------------------|
| | 0
6
5
6 | 0
3
9
5 | 0
7
0
5 | 0
7
3
3 | 0
7
0
4 | 0
7
2
5 | 0
7
3
2 | 0
7
3
1 | 0
6
4
2 | 0
5
6
7 | 0
7
3
2 | 0
7
3
3 | 0
6
5
5 | 0
7
7
1 | 0
6
3
7 | 0
5
7
6 | 0
7
1
2 | 0
6
4
2 | 0
7
3
2 | 0
6
4
5 | | | 0
6
7
0 | 0
6
5
5 | 0
6
6
5 | 0
7
3
3 |
| Inflammation, Chronic Active | | 1 | 4 | 2 | 2 | 4 | 4 | 1 | 3 | | 1 | 1 | 1 | 1 | 4 | 4 | 4 | 2 | 4 | 4 | 1 | 4 | 4 | 4 | 4 | |
| Polyp, Inflammatory | | | | | 4 | | | | 2 | | | | | | | | | | | | | | | | | |
| Thrombosis | | 3 | | | | 3 | | | | | | | | | | | | | 2 | | 2 | | 3 | | | |
| Olfactory Epithelium, Metaplasia, Respiratory | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | |
| Olfactory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | 2 | | | | | | | | | |
| Respiratory Epithelium, Hyperplasia | | | | | 2 | 2 | 1 | | 2 | | | | | 3 | 3 | | | | 2 | 1 | | | 1 | 1 | 3 | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | 3 | | | | | |
| Turbinate, Atrophy | 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 | |
| Turbinate, Hyperostosis | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 2 | |
| Pleura
Hyperplasia
Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Cataract | | | | | | | | | | | | | | | | 2 | | | | | | | | | | |
| Retina, Atrophy | | | | | | | | | | | | | 2 | 3 | | | | | | | | | | | | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| Lacrimal Gland
Degeneration | | | | | | | | | | | | | | | | + | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney
Infarct | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|-------------------------|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|----|
| | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | | 26 | | | | |
| 100 ppm | 02 | 07 | 08 | 03 | 03 | 06 | 03 | 03 | 00 | 03 | 03 | 01 | 07 | 03 | 09 | 02 | 05 | 03 | 03 | 08 | 03 | 00 | 09 | 03 | 09 | 08 |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 |
| | 02 | 02 | 02 | 02 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 03 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 05 | 08 |
| | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 00 |

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 |
| Angiectasis | | | | | | | | | 2 | | | | | | 2 | | | | 2 | | | | | | | 5 2.0 |
| Basophilic Focus | | X | X | | X | X | | X | X | | X | | X | X | X | | X | X | X | X | X | | X | X | | 29 |
| Clear Cell Focus | | | | X | X | X | | | | X | | | | | | | X | | X | | X | X | | | | 18 |
| Degeneration, Cystic | | | 3 | | | | | | | | | | 4 | | 3 | 2 | | | | | | | | | | 7 2.7 |
| Eosinophilic Focus | | | X | X | | X | X | X | | X | | X | | X | X | | X | X | | | | | | X | | 16 |
| Fatty Change, Diffuse | | | | 2 | | 3 | | 1 | | 2 | 3 | | 2 | | 2 | 4 | 2 | | 1 | | | | 3 | 1 | 1 | 30 2.0 |
| Hepatodiaphragmatic Nodule | | | | X | | | X | | | | | | X | | | | X | | | | | | | | | 5 |
| Inflammation, Chronic | 2 | 3 | 1 | 3 | 2 | 3 | 2 | 3 | 1 | 3 | 1 | | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 1 | 1 | 2 | 2 | 2 | 3 | 48 2.1 |
| Mixed Cell Focus | | | X | X | X | | X | | X | X | | | | | X | | | | | | | X | X | | | 13 |
| Necrosis | 1 | 3 | | | | | | | 2 | | | | | 1 | 2 | 2 | | | | | | | | 2 | | 11 1.8 |
| Bile Duct, Hyperplasia | | | 2 | | | | | | | | | | | 1 | | | | | | | | | | | | 6 1.3 |
| Mesentery | + | + | | + | | | | + | + | | | | | | + | + | + | | | + | + | + | + | | | 24 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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Experiment Number: 20303 - 05
 Test Type: CHRONIC
 Route: RESPIRATORY EXPOSURE WHOLE BODY
 Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|----------|
| | 0628 | 0717 | 0831 | 0771 | 0771 | 0676 | 0777 | 0777 | 0777 | 0777 | 0777 | 0116 | 0677 | 0676 | 0777 | 0676 | 0777 | 0575 | 0777 | 0666 | 0667 | 0776 | 0776 | | |
| ANIMAL ID | 00726 | 00727 | 00728 | 00729 | 00730 | 00731 | 00732 | 00733 | 00734 | 00735 | 00736 | 00737 | 00738 | 00739 | 00740 | 00741 | 00742 | 00743 | 00744 | 00745 | 00746 | 00747 | 00748 | | |
| Fat, Necrosis | 2 | | 2 | | | | 2 | 2 | | | | | | | 2 | 2 | 2 | | | 2 | 2 | 2 | 2 | 23 | |
| Oral Mucosa
Pharyngeal, Hyperplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Pancreas
Acinus, Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Acinus, Hyperplasia | 1 | | 1 | | 1 | | | | | | 1 | | | | | | | 1 | | | 1 | | | 11 | |
| | | | | | | | | | 2 | | | | 2 | | | | 2 | | | | | | | 3 | |
| Salivary Glands
Atrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Basophilic Focus | X | | | | | | 2 | | | | | | | | | | | | | | | | | 1 | |
| Stomach, Forestomach
Hyperplasia, Squamous | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Ulcer | | | | 3 | | | | | | | | | | | | | | | | | | | | 2 | |
| | | | | | | | | | | | | | | | | | | | | | | 3 | | 3 | |
| Stomach, Glandular
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | 2 | | | | | | | | | | | | | 1 | | | | | | | | | 6 | |
| | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.5 | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heart
Cardiomyopathy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| Thrombosis | | | | 1 | 1 | 2 | 1 | 1 | | 1 | 1 | | | | | | 1 | 1 | 1 | 2 | 1 | | | 27 | |
| Pericardium, Fibrosis | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1.3 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3.0 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 2.0 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | |
| Adrenal Cortex
Degeneration, Cystic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| | | | | | | | | | | | | | | | | | | | | | | | | 3.0 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue

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

1-4 .. Lesion qualified as:
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Experiment Number: 20303 - 05
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 Species/Strain: RATS/F 344/N

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 Vinylidene chloride
 CAS Number: 75-35-4

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 Lab: BNW

| FISCHER 344 RATS FEMALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|------|------|-----|
| | 0628 | 0717 | 0673 | 0773 | 0773 | 0679 | 0772 | 0772 | 0771 | 0773 | 0133 | 0676 | 0771 | 0677 | 0774 | 0666 | 0773 | 0578 | 0763 | 0667 | | 0671 | 0763 | 0676 | 0769 | 0673 | 0678 | |
| ANIMAL ID | 00726 | 00772 | 00778 | 00779 | 00780 | 00781 | 00782 | 00783 | 00784 | 00785 | 00786 | 00787 | 00788 | 00789 | 00790 | 00791 | 00792 | 00793 | 00794 | 00795 | 00796 | 00797 | 00798 | 00799 | 00800 | | | |
| Hyperplasia | 2 | | | 2 | 2 | 3 | | 2 | | 2 | 3 | | | | 2 | 2 | | | | | | | | 2 | 2 | 25 | 2.1 | |
| Hypertrophy | | | | | | | | | | | | | | | | 2 | | | | | | | | 2 | 2 | 4 | 2.0 | |
| Metaplasia, Osseous | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Adrenal Medulla | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Hyperplasia | | 2 | | | | | | 3 | 2 | 2 | | | | | 2 | | | | | | | | | | 2 | 12 | 2.1 | |
| Islets, Pancreatic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Parathyroid Gland | + | + | + | + | + | M | + | + | + | I | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | |
| Pituitary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Pars Distalis, Angiectasis | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 | |
| Pars Distalis, Hyperplasia | 3 | | | | 3 | | 2 | | | | 3 | | | | | 2 | | | | | | | 3 | | 11 | 2.4 | | |
| Thyroid Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| C-cell, Hyperplasia | 1 | 1 | | 2 | | | | | | | | | 3 | | | 2 | 1 | | 1 | | 1 | 1 | | 2 | 1 | 27 | 1.3 | |
| Follicular Cell, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peritoneum | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | |
| Mesothelium, Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| GENITAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | 48 | |
| Hyperplasia | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| Ovary | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 X .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
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 Vinylidene chloride
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| FISCHER 344 RATS FEMALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | | | | |
|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|----|-----|-----|-----|-----|-----|-----|
| | 0628 | 0717 | 0618 | 0731 | 0771 | 0676 | 0777 | 0777 | 0777 | 0777 | 0777 | 0116 | 0677 | 0676 | 0777 | 0676 | 0777 | 0575 | 0776 | 0666 | 0777 | 0666 | 0777 | 0666 | | 0777 | | | | | | | |
| ANIMAL ID | 00726 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | 00777 | | | | | | | | |
| Cyst | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 | | | | | |
| Bursa, Dilatation | | | 4 | | | | | 3 | 2 | 3 | 4 | | | | 3 | 3 | | | | | 4 | 2 | 4 | 3 | | | 3 | 24 | 3.2 | | | | |
| Uterus | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | | |
| Endometrium, Hyperplasia, Cystic | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 1 | 3.0 | | | |
| Vagina | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |
| Lymph Node | + | | + | | | | | | | + | | | | | | | | | | | | | | | | | | | | 9 | | | |
| Lymph Node, Bronchial | + | + | M | M | M | M | M | M | M | M | M | M | M | + | + | + | + | M | M | M | + | M | M | M | M | M | M | 10 | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1 | 2.0 | | |
| Lymph Node, Mandibular | + | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | 4 | | | | | |
| Lymph Node, Mediastinal | M | + | M | + | + | + | + | + | + | + | M | + | + | + | M | M | + | M | + | + | + | + | + | M | + | + | 38 | | | | | | |
| Ectasia | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1 | 1.0 | |
| Lymph Node, Mesenteric | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |
| Hyperplasia, Lymphoid | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | | |
| Inflammation, Granulomatous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 1 | 4.0 | | |
| Spleen | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |
| Fibrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 | 2.8 | |
| Hematopoietic Cell Proliferation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | 3 | 4 | 2.8 |
| Necrosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 3 | 2.7 |

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
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Vinylidene chloride
CAS Number: 75-35-4

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Lab: BNW

| FISCHER 344 RATS FEMALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | | | | | | * TOTALS | | | |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|---|-----|
| | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | | | |
| | ANIMAL ID | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | | | |
| | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | 77 | | | |
| | 22 | 22 | 22 | 22 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | | | |
| | 67 | 67 | 68 | 69 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | | | | |
| Thymus | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 42 | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Skin
Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 3.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bone | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brain
Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Larynx | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lung | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Thrombosis | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Alveolar Epithelium, Hyperplasia | | | | | | | | | | | 1 | 1 | 3 | | | | | | | | | | | | | | | 8 | 1.6 |
| Alveolar Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | 1.5 |
| Alveolus, Infiltration Cellular, Histiocyte | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Bronchiole, Hyperplasia | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| Nose | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Foreign Body | | | | | X | | | | | | | | | | | | | | | | | | | | | | | | 5 |

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M .. Missing tissue
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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Vinylidene chloride
 CAS Number: 75-35-4

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

| FISCHER 344 RATS FEMALE
100 ppm | DAY ON TEST | | | | | | | | | | | | | | | | | | | | * TOTALS | | | | | |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-----|
| | 0628 | 0717 | 0673 | 0773 | 0773 | 0676 | 0777 | 0777 | 0777 | 0777 | 0777 | 0116 | 0677 | 0773 | 0676 | 0777 | 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 | 00749 | 00750 | |
| Inflammation, Chronic Active | 4 | 4 | 1 | 4 | 1 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 2 | 1 | 4 | 4 | 4 | 4 | 1 | 4 | 1 | 2 | 2 | 46 | 2.9 | |
| Polyp, Inflammatory | | | | | | | | | | | | | 3 | | | | | | | | | | | 3 | 3.0 | |
| Thrombosis | | | | | | | | | | | | | | 2 | | | | | | | | | 1 | 7 | 2.3 | |
| Olfactory Epithelium, Metaplasia, Respiratory | 4 | 4 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 2 | 4 | 4 | 3 | 4 | 4 | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 50 | 3.6 | |
| Olfactory Epithelium, Metaplasia, Squamous | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Respiratory Epithelium, Hyperplasia | 2 | 3 | | 3 | | | 2 | 2 | 2 | 3 | 4 | | 2 | 1 | | 2 | 1 | 3 | 3 | | 1 | | 1 | 27 | 2.1 | |
| Respiratory Epithelium, Metaplasia, Squamous | | | | | | | 2 | | | 2 | | | | | | | | | | | | | | 3 | 2.3 | |
| Turbinate, Atrophy | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 50 | 4.0 | |
| Turbinate, Hyperostosis | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 1 | 3 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 4 | 2 | 3 | 3 | 50 | 2.8 |
| Pleura | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Hyperplasia | | | | | | | | | | | | | 2 | | | | | | | | | | | 1 | 2.0 | |
| Infiltration Cellular, Mononuclear Cell | | | | | | | | | | | | 3 | | | | | | | | | | | | 1 | 3.0 | |
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eye | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | |
| Cataract | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| Retina, Atrophy | | | | | | | | | | | | | | | | | | | | | | | | 2 | 2.5 | |
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Lacrimal Gland | | | | | | | | | | | | | | | | | | | | | | | | 1 | | |
| Degeneration | | | | | | | | | | | | | | | | | | | | | | | | 1 | 2.0 | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Kidney | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| Infarct | | | | | | | | | | | | | | | | | | | | | | 2 | 2 | 2 | 2.0 | |

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|------------------------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|-----------|----------|
| | 068 | 077 | 068 | 077 | 077 | 066 | 077 | 077 | 077 | 077 | 077 | 016 | 067 | 067 | 076 | 076 | 076 | 057 | 076 | 066 | 067 | 067 | 066 | | | |
| ANIMAL ID | 00726 | 00777 | 00778 | 00779 | 00770 | 00771 | 00772 | 00773 | 00774 | 00775 | 00776 | 00777 | 00778 | 00779 | 00770 | 00771 | 00772 | 00773 | 00774 | 00775 | 00776 | 00777 | 00778 | | | |
| Nephropathy | 1 | 2 | 1 | 2 | | 1 | 1 | 2 | 1 | 1 | 3 | | 1 | 1 | | 1 | 1 | 2 | 2 | 1 | | 1 | 1 | 2 | 2 | |
| Renal Tubule, Hyperplasia | | | | | | | | 3 | | | | | | | | | | | | | 3 | | | | | |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 50 | |

*** END OF REPORT ***

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