

**TDMS No.** 99024 - 07  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
**CAS Number:** 63-05-8

**Date Report Requested:** 07/18/2008  
**Time Report Requested:** 13:49:10  
**First Dose M/F:** 02/03/03 / 02/03/03  
**Lab:** SRI

F1\_R2

**C Number:** C99024C  
**Lock Date:** 06/29/2006  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.0.0







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DAY ON TEST	0																								
	7	5	7	6	6	5	6	7	7	7	7	7	7	5	6	7	6	7	7	5	6	7	6	7	7
	2	4	2	1	4	5	8	2	2	3	3	3	2	5	5	2	9	1	3	4	8	3	8	3	2
	9	0	9	2	1	4	7	9	9	0	0	0	4	2	1	9	9	2	1	7	9	1	8	1	9
<b>FISCHER 344 RATS MALE</b> <b>0 MG/KG</b>	ANIMAL ID																								
	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

males  
(cont...)

Adrenal Medulla Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
												2		2									2		
Islets, Pancreatic Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
															1								2		
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Angiectasis																3									
Pars Distalis, Cyst																									
Pars Distalis, Hyperplasia, Focal		2		2					1		1									2		2	3		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ultimobranchial Cyst						2																			
C-cell, Hyperplasia	1		2			1	1	1		1	2				1	2				2		1	1	2	1

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																							3	
Degeneration																								
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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	7	5	7	6	6	5	6	7	7	7	7	7	5	6	7	6	7	7	5	6	7	6	7	7	
	2	4	2	1	4	5	8	2	2	3	3	3	2	5	5	2	9	1	3	4	8	3	8	3	
	9	0	9	2	1	4	7	9	9	0	0	0	4	2	1	9	9	2	1	7	9	1	8	1	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	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	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	

males (cont...)

Cyst	3																								
Hyperplasia																									
Inflammation, Chronic	2	2	2	2	3	2	1	1	2	2	1	1	1		2	2	1	2	1	1	2	1	2	1	
Prostate																									
Inflammation, Chronic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Hyperplasia	1		1																		2	3		2	
Seminal Vesicle																									
Testes																									
Thrombosis																									
Germinal Epithelium, Atrophy																									
Interstitial Cell, Hyperplasia																									

**HEMATOPOIETIC SYSTEM**

Bone Marrow																										
Hyperplasia																										
Myelofibrosis																										
Lymph Node																										
Mediastinal, Ectasia																										
Mediastinal, Fibrosis																										
Mediastinal, Hyperplasia, Histiocytic																										
Mediastinal, Hyperplasia, Lymphoid																										
Pancreatic, Atrophy																										
Pancreatic, Ectasia	3																				3					

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DAY ON TEST	0 0																								
	7	5	7	6	6	5	6	7	7	7	7	7	5	6	7	6	7	7	5	6	7	6	7	7	
	2	4	2	1	4	5	8	2	2	3	3	3	2	5	5	2	9	1	3	4	8	3	8	3	
	9	0	9	2	1	4	7	9	9	0	0	0	4	2	1	9	9	2	1	7	9	1	8	1	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	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	

males  
(cont...)

**URINARY SYSTEM**

Kidney	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infarct													1						4				
Nephropathy	2		2			1		2	2	1	1	2		1	2	1	2	2	1	1	1	2	1
Renal Tubule, Accumulation, Hyaline Droplet																							
Renal Tubule, Necrosis																							
Renal Tubule, Pigmentation								2											1				2
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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DAY ON TEST	0																								* TOTALS	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
7	5	5	6	7	5	4	7	7	3	6	6	7	6	7	6	5	5	6	7	7	7	7	7	4		
2	4	5	8	0	9	5	3	3	8	8	1	3	5	3	0	8	2	8	0	3	3	3	3	6		
9	7	8	9	1	2	6	0	1	7	6	9	1	9	0	4	9	6	8	1	0	0	0	0	4		
.....																										
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	

Cyst				3						3			3												4	3.0			
Hyperplasia										2															1	2.0			
Inflammation, Chronic	2	3	2	2	2	1	1		2	1	1	3		2	1	2	2	2	2	3	2	1	2	2	2	47	1.7		
.....																													
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Inflammation, Chronic	1	3		2	3				2		4	3	1		1	3	2	1		2	2		1	3	2	25	2.0		
Epithelium, Hyperplasia	2	2	2	2	2									2												9	1.9		
.....																													
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
.....																													
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Thrombosis																												1	4.0
Germinal Epithelium, Atrophy							3						2			4												9	3.1
Interstitial Cell, Hyperplasia				1						1						2												4	1.5

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50						
Hyperplasia																3												4	2.8			
Myelofibrosis																															1	4.0
.....																																
Lymph Node				+	+		+	+		+	+		+		+		+	+		+	+		+	+		25						
Mediastinal, Ectasia																															1	3.0
Mediastinal, Fibrosis				3																											1	3.0
Mediastinal, Hyperplasia, Histiocytic													2																		1	2.0
Mediastinal, Hyperplasia, Lymphoid													2			2			3												3	2.3
Pancreatic, Atrophy																			4												1	4.0
Pancreatic, Ectasia													3																		3	3.0

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DAY ON TEST	0 0																								
	7 7 2 7 7 7 7 7 6 6 7 7 7 7 7 7 7 7 6 7 7 7 7 7 7																								
FISCHER 344 RATS MALE 10 MG/KG	2 2 2 3 3 3 2 2 4 2 3 3 3 3 3 0 2 2 3 3 4 2 2 2 1																								
	9 9 4 0 0 0 9 9 1 9 1 1 1 1 1 1 9 9 0 0 1 9 9 9 2																								
ANIMAL ID	0 0																								
	0 0																								
	0 0																								
	5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6																								
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																								

males (cont...)

Prostate	+ +																								
Inflammation, Chronic	3 2																								
Epithelium, Hyperplasia	2 2																								
Seminal Vesicle	+ +																								
Testes	+ +																								
Germinal Epithelium, Atrophy	3 3																								
Interstitial Cell, Hyperplasia	3 3																								

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+ +																								
Hyperplasia	3 3																								
Myelofibrosis	3 3																								
Lymph Node	+ +																								
Mediastinal, Angiectasis	3 3																								
Mediastinal, Hemorrhage	3 3																								
Mediastinal, Hyperplasia, Lymphoid	3 3																								
Pancreatic, Ectasia	3 3																								
Pancreatic, Necrosis	3 3																								
Lymph Node, Mandibular	M M																								
Lymph Node, Mesenteric	+ +																								
Ectasia	2 2																								
Hyperplasia, Histiocytic	2 2																								

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DAY ON TEST	0 0																									males (cont...)	
	4 6 7 6 6 5 7 7 7 7 7 7 7 7 7 5 7 5 3 7 7 6 7 7																										
FISCHER 344 RATS MALE 20 MG/KG ANIMAL ID	4 7 2 7 7 2 3 0 3 3 3 3 3 1 3 3 5 3 9 8 3 2 9 1 3																									males (cont...)	
	2 4 9 4 4 1 0 1 0 0 0 0 0 0 2 0 1 8 1 3 7 1 9 4 2 1																										
	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	
Hepatodiaphragmatic Nodule							X		3		2												2				
Infiltration Cellular, Mixed Cell								1					1							1							1
Mixed Cell Focus																					X						
Necrosis, Focal			2																								
Thrombosis			4																								
Bile Duct, Hyperplasia			3	2	3			1	1	2	2	1	2	1		3	1	1		1	1		1		3	2	2
Hepatocyte, Hyperplasia											2																
Hepatocyte, Vacuolization Cytoplasmic						3	1		2				1		3									2			
Mesentery				+			+																			+	+
Fat, Necrosis				2			2																				3
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy				1		2		2		2		3	2		2						1						
Cyst																										2	
Acinus, Cytoplasmic Alteration									3																		
Acinus, Hyperplasia, Focal																											
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema								3																			
Hemorrhage				2																							
Ulcer								3																			
Epithelium, Hyperplasia																											
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Erosion																											
Ulcer																											3

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	4	6	7	6	6	5	7	7	7	7	7	7	7	7	5	7	5	3	7	7	6	7	7		
	4	7	2	7	7	2	3	0	3	3	3	3	3	1	3	3	5	3	9	8	3	2	9	1	3
	2	4	9	4	4	1	0	1	0	0	0	0	0	2	0	1	8	1	3	7	1	9	4	2	1
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>20 MG/KG</b>	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
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males  
(cont...)

Epithelium, Hyperplasia																									2
Tooth Malformation																									+
																									3

**CARDIOVASCULAR SYSTEM**

Blood Vessel																									
Heart																									
Cardiomyopathy	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thrombosis	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	2	2
																3			2						

**ENDOCRINE SYSTEM**

Adrenal Cortex																									
Accessory Adrenal Cortical Nodule																									
Degeneration, Fatty	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Focal		1	2		2	2		2		1			1	3	2	2					2		2		2
Hypertrophy, Focal																									
Adrenal Medulla																									
Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
																									2
Islets, Pancreatic																									
Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
												1												2	

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 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	6	7	6	6	5	7	7	7	7	7	7	7	7	7	5	7	5	3	7	7	6	7	7	0	0	
	4	7	2	7	7	2	3	0	3	3	3	3	3	1	3	3	5	3	9	8	3	2	9	1	3	0	
	2	4	9	4	4	1	0	1	0	0	0	0	0	2	0	1	8	1	3	7	1	9	4	2	1	0	
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>20 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>ANIMAL ID</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	<b>males (cont...)</b>	

Parathyroid Gland +

Pituitary Gland +  
 Pars Distalis, Cyst 3  
 Pars Distalis, Hyperplasia, Focal 1 1 1 2 1 1 2 1 2  
 Pars Intermedia, Cyst 2 2  
 Pars Intermedia, Hyperplasia, Focal 2  
 Rathke's Cleft, Cyst 2

Thyroid Gland +  
 Ultimobranchial Cyst  
 C-cell, Hyperplasia 1 1 1 1 1 1 2 1 2 1  
 Follicle, Cyst 1 2 2  
 Follicular Cell, Hyperplasia

**GENERAL BODY SYSTEM**

Tissue NOS +

**GENITAL SYSTEM**

Coagulating Gland  
 Epididymis +  
 Preputial Gland  
 Inflammation, Chronic +  
 1 2 1 1 1 2 1 2 1 1 2 2 1 1 2 1 1 1 1 1 1 1 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  
 2) Mild 4) Marked  
 Page 39

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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

Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Inflammation, Chronic		3	2																2		2		3		2					
Epithelium, Hyperplasia								2	2											2		3		2						
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Germinal Epithelium, Atrophy		3	3	3	2			2	4			3																		
Interstitial Cell, Hyperplasia																														

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Hyperplasia		4																												
Lymph Node	+	+		+	+			+	+					+	+		+							+	+					
Mediastinal, Ectasia	3							2																						
Mediastinal, Hemorrhage		3																												
Pancreatic, Ectasia															2															
Pancreatic, Hemorrhage		4																												
Pancreatic, Hyperplasia, Histiocytic	2															2													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, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+					
Ectasia					3										2															
Hemorrhage		3			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  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	0 0																								
	4 6 7 6 6 5 7 7 7 7 7 7 7 7 7 7 5 7 5 3 7 7 6 7 7																								
FISCHER 344 RATS MALE 20 MG/KG ANIMAL ID	4 7 2 7 7 2 3 0 3 3 3 3 3 1 3 3 5 3 9 8 3 2 9 1 3																								
	2 4 9 4 4 1 0 1 0 0 0 0 0 0 2 0 1 8 1 3 7 1 9 4 2 1																								
0 0																									
0 0																									
1 1																									
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 3 4 5																									
males (cont...)																									

Hyperplasia, Histiocytic	1	1			1	1	1			1	2	1													1	
Hyperplasia, Lymphoid	2																									
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Spleen																										
Fibrosis				2	3																					
Hematopoietic Cell Proliferation	3																									
Necrosis												3														
Pigmentation						3																		2		
Lymphoid Follicle, Hyperplasia																										
Red Pulp, Hyperplasia															3											
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy	3			3																						
Cyst																										
Hemorrhage															2											

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																										
Hyperplasia	1	2		2	1	2		1	2	1	2			2			2	1				1	1	2	2	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion																										
Fibrosis																										
Hyperkeratosis					2									2			3									
Inflammation, Chronic																	3									
Epidermis, 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





TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	ANIMAL ID																									males (cont...)
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	6	7	6	6	5	7	7	7	7	7	7	7	7	7	7	5	7	5	3	7	7	6	7	7		
4	7	2	7	7	2	3	0	3	3	3	3	3	3	1	3	3	5	3	9	8	3	2	9	1	3	
2	4	9	4	4	1	0	1	0	0	0	0	0	0	2	0	1	8	1	3	7	1	9	4	2	1	
.....																										
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>20 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2		
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	<b>males (cont...)</b>
.....																										
Renal Tubule, Pigmentation	3				3	2				2				3												
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  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 44



TDMS No. 99024 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Androstenedione
CAS Number: 63-05-8

Date Report Requested: 07/18/2008

Time Report Requested: 13:49:10

First Dose M/F: 02/03/03 / 02/03/03

Lab: SRI

Table with columns for Day on Test, Animal ID, and various lesion types (e.g., Hepatodiaphragmatic Nodule, Mesentery, Pancreas, Salivary Glands, Stomach) with counts and severity grades. Includes a \* TOTALS column at the end of each row.

\* .. 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





TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	0 0																							
	7 7 7 7 7 7 7 7 6 7 6 7 6 5 7 7 7 7 7 6 6 6 7 7 6																							
FISCHER 344 RATS MALE 20 MG/KG ANIMAL ID	0 0																							
	1 1																							
2 2 2 2 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 5																								
6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0																								
<b>* TOTALS</b>																								

Prostate	+ +																								50
Inflammation, Chronic																									
Epithelium, Hyperplasia																									
Seminal Vesicle	+ +																								50
Testes	+ +																								50
Germinal Epithelium, Atrophy	3																								
Interstitial Cell, Hyperplasia																									
																									10 3.0
																									2 1.0

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+ +																								50
Hyperplasia																									
Lymph Node	+ +																								16
Mediastinal, Ectasia																									
Mediastinal, Hemorrhage																									
Pancreatic, Ectasia																									
Pancreatic, Hemorrhage																									
Pancreatic, Hyperplasia, Histiocytic																									
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, Mesenteric	+ +																								50
Ectasia																									
Hemorrhage																									
																									7 2.3
																									2 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  
 Page 49

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	0 0																								* TOTALS
	7	7	7	7	7	7	7	7	6	7	6	7	6	5	7	7	7	7	7	6	6	6	7	7	
	0	3	2	2	2	3	3	3	4	3	0	3	2	4	3	3	3	2	2	1	8	3	3	3	5
	1	1	9	9	9	0	0	0	1	0	5	1	1	7	0	0	0	9	9	5	7	1	1	0	9

**FISCHER 344 RATS MALE**

20 MG/KG

ANIMAL ID

ANIMAL ID	0 0																								* TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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
	2	2	2	2	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

Hyperplasia, Histiocytic	2	2	1	2	2		2		1	2			2			1	1	1	2		2	2	2		<b>25</b>	<b>1.5</b>	
Hyperplasia, Lymphoid																										<b>1</b>	<b>2.0</b>
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Accessory Spleen																	2									<b>1</b>	<b>2.0</b>
Fibrosis							3																3			<b>4</b>	<b>2.8</b>
Hematopoietic Cell Proliferation														3	2										2	<b>4</b>	<b>2.5</b>
Necrosis																										<b>1</b>	<b>3.0</b>
Pigmentation							2			2										2	2				2	<b>8</b>	<b>2.1</b>
Lymphoid Follicle, Hyperplasia				2				3							3	3										<b>4</b>	<b>2.8</b>
Red Pulp, Hyperplasia																										<b>1</b>	<b>3.0</b>
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Atrophy																										<b>2</b>	<b>3.0</b>
Cyst										3																<b>1</b>	<b>3.0</b>
Hemorrhage																										<b>1</b>	<b>2.0</b>

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Cyst										3	3															<b>4</b>	<b>2.8</b>
Hyperplasia	2	1			2	2			3	2	1		1		1		1	1	3	1	1		2	3	3	<b>33</b>	<b>1.7</b>
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Cyst Epithelial Inclusion				X																						<b>1</b>	
Fibrosis										3																<b>1</b>	<b>3.0</b>
Hyperkeratosis													2				3						3			<b>6</b>	<b>2.5</b>
Inflammation, Chronic																										<b>1</b>	<b>3.0</b>
Epidermis, Hyperplasia																							2			<b>3</b>	<b>2.0</b>

\* .. 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

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
	7	7	7	7	7	7	7	6	7	6	7	6	5	7	7	7	7	7	6	6	6	7	7	6	
	0	3	2	2	2	3	3	3	4	3	0	3	2	4	3	3	3	2	2	1	8	3	3	3	5
	1	1	9	9	9	0	0	0	1	0	5	1	1	7	0	0	0	9	9	5	7	1	1	0	9
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ANIMAL ID</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>20 MG/KG</b>	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
	2	2	2	2	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
<b>* TOTALS</b>																									

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Skeletal Muscle	+																								3
Fibrosis																						2			2 2.0

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Compression					3			3	3									2		3				2	7 2.7
Hemorrhage																				3					2 2.5

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Congestion																									1 3.0
Foreign Body											2														1 2.0
Hemorrhage																						1			1 1.0
Infiltration Cellular, Histiocyte			1	1		1	1	1					2	1	1	1			2						18 1.2
Inflammation, Granulomatous																									1 2.0
Inflammation, Chronic										1															1 1.0
Metaplasia, Osseous															2										1 2.0
Alveolar Epithelium, Hyperplasia			2												1					2					8 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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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked



TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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
	7	7	7	7	7	7	7	6	7	6	7	6	5	7	7	7	7	7	6	6	6	7	7	6	
	0	3	2	2	2	3	3	3	4	3	0	3	2	4	3	3	3	2	2	1	8	3	3	3	5
	1	1	9	9	9	0	0	0	1	0	5	1	1	7	0	0	0	9	9	5	7	1	1	0	9
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>20 MG/KG</b>	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
	2	2	2	2	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
																								<b>* TOTALS</b>	
Renal Tubule, Pigmentation																								<b>6 2.3</b>	
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  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 53

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	0 0																								
	7 7 6 6 5 7 7 6 7 7 6 7 7 6 7 7 6 5 5 6 7 7 7 6 7																								
FISCHER 344 RATS MALE 50 MG/KG	3 3 7 6 8 3 3 1 3 2 6 2 2 4 2 3 9 6 4 6 3 2 2 5 3																								
	1 1 3 6 9 0 0 0 0 9 3 9 9 8 9 1 7 3 4 6 0 9 9 9 1																								
ANIMAL ID	0 0																								
	0 0																								
50 MG/KG	1 1																								
	5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7																								
ANIMAL ID	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																								
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																								

males  
(cont...)

ALIMENTARY SYSTEM

Esophagus	+ +																								
Intestine Large, Cecum	+ +																								
Intestine Large, Colon	+ + A + + + + + + + + + + + + A + + + + + A + + + + + + +																								
Intestine Large, Rectum	+ + A +																								
Intestine Small, Duodenum	+ A + + + + + + +																								
Intestine Small, Ileum	+ + A + A + + + + + + +																								
Intestine Small, Jejunum	+ + + + + + + + + + + A + + + A + + + + + A + + + + + + +																								
Liver	+ +																								
Angiectasis																									
Basophilic Focus	X X																								
Clear Cell Focus	X X																								
Clear Cell Focus, Multiple	X X																								
Degeneration, Cystic	X X																								
Eosinophilic Focus	X X																								
Hepatodiaphragmatic Nodule	2 2																								
Infiltration Cellular, Mixed Cell	1 1																								
Mixed Cell Focus	X X																								
Necrosis, Focal																									

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 + .. Tissue examined microscopically  
 x .. Lesion present  
 l .. Insufficient tissue  
 M .. Missing tissue  
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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	0 0																								
	7 7 6 6 5 7 7 6 7 7 6 7 7 6 7 7 6 5 5 6 7 7 7 6 7																								
FISCHER 344 RATS MALE 50 MG/KG ANIMAL ID	3 3 7 6 8 3 3 1 3 2 6 2 2 4 2 3 9 6 4 6 3 2 2 5 3																								
	1 1 3 6 9 0 0 0 0 9 3 9 9 8 9 1 7 3 4 6 0 9 9 9 1																								
.....																									
0 0																									
0 0																									
1 1																									
5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7																									
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																									
.....																									
Bile Duct, Hyperplasia	2 2 2 1 1 1 1 1 2 2 2 2 1 1 2 1 2 1 1 2 2 1 2																								
Hepatocyte, Hyperplasia	3																								
Hepatocyte, Vacuolization Cytoplasmic	1 2 1 1 1 2 1 1 1 2 2 1 2																								
.....																									
Mesentery	+ +																								
Accessory Spleen	2 X																								
Fat, Necrosis	2 2																								
.....																									
Pancreas	+ +																								
Atrophy	2 1 2 1																								
Infiltration Cellular, Lymphocyte	1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2																								
Acinus, Cytoplasmic Alteration	3																								
Acinus, Hyperplasia, Focal	1																								
.....																									
Salivary Glands	+ +																								
Atrophy	3																								
.....																									
Stomach, Forestomach	+ +																								
Edema	3 4																								
Ulcer	3 3																								
Epithelium, Hyperplasia	2 2																								
.....																									
Stomach, Glandular	+ +																								
Edema	2																								
Erosion	3 2 1 2																								
Ulcer	2 2																								
Epithelium, Cyst	2 2																								
Epithelium, Hyperplasia	2 2																								
Muscularis, Hyperplasia	2																								

males (cont...)

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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAY ON TEST		7	7	6	6	5	7	7	6	7	7	6	7	7	6	7	7	6	5	5	6	7	7	7	6	7	
		3	3	7	6	8	3	3	1	3	2	6	2	2	4	2	3	9	6	4	6	3	2	2	5	3	
		1	1	3	6	9	0	0	0	0	9	3	9	9	8	9	1	7	3	4	6	0	9	9	9	1	
<b>FISCHER 344 RATS MALE</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>50 MG/KG</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		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	
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

males  
(cont...)

Tongue  
 Hyperplasia, Squamous

**CARDIOVASCULAR SYSTEM**

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	2	2	3	3	2	2	2	2	2	1	2	2	1	2	2	2	2	2	2		2		2	2	2
Thrombosis			3																				3		

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Adrenal Cortical Nodule				3																					
Degeneration, Fatty	1			2		1							1					2		2	1	2		2	
Hyperplasia, Focal																									
Hypertrophy, Focal										1									1						
Hypertrophy, Diffuse																									
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	2	2					2									2					1			2	1
Infiltration Cellular, Lymphocyte				2																					
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	2	2	2			1	1					2							2						
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+

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 + .. 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

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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
	7	7	6	6	5	7	7	6	7	7	6	7	7	6	7	7	6	5	5	6	7	7	7	6	7
	3	3	7	6	8	3	3	1	3	2	6	2	2	4	2	3	9	6	4	6	3	2	2	5	3
	1	1	3	6	9	0	0	0	0	9	3	9	9	8	9	1	7	3	4	6	0	9	9	9	1
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>50 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	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
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males (cont...)

Hyperplasia																																									
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																
Pars Distalis, Angiectasis											4																														
Pars Distalis, Cyst	2																																								
Pars Distalis, Hyperplasia, Focal	2	2					2	1			1													2			2			1			1	2							
Pars Intermedia, Angiectasis																																									
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																
C-cell, Hyperplasia			1			2	2			1					1	1			2							1			1	1	1	1	1	1	1	1	1	1	1	1	1
Follicle, Cyst																																									
Follicular Cell, Hyperplasia																1																									

**GENERAL BODY SYSTEM**  
 NONE

**GENITAL SYSTEM**

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																										
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst				2													3							4	2	
Fibrosis																										
Hyperplasia																2										
Inflammation, Chronic	1	1	2	1	1	1	1	2			1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	1

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 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked  
 Page 57

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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

**FISCHER 344 RATS MALE**  
**50 MG/KG**

Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic	1		4	2		1						2	2	2			2	3		2				2	
Epithelium, Hyperplasia				2						2			2				2	2						2	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Malformation																				X					
Germinal Epithelium, Atrophy			3							3		3	2			3						3			
Interstitial Cell, Hyperplasia	1																					1			

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia				3					2								3								
Lymph Node			+		+																		+		
Pancreatic, Angiectasis																									
Pancreatic, Hyperplasia, Histiocytic																									
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, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia									2																
Hyperplasia, Histiocytic	1					1	1			1			2	1	2	1	1	2				2		1	2
Hyperplasia, Lymphoid				3																					
Pigmentation															1										

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 1) Minimal 3) Moderate  
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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	0 0																								
	7 7 6 6 5 7 7 6 7 7 6 7 7 6 7 7 6 5 5 6 7 7 7 6 7																								
FISCHER 344 RATS MALE 50 MG/KG ANIMAL ID	3 3 7 6 8 3 3 1 3 2 6 2 2 4 2 3 9 6 4 6 3 2 2 5 3																								
	1 1 3 6 9 0 0 0 0 9 3 9 9 8 9 1 7 3 4 6 0 9 9 9 1																								
	0 0																								
	0 0																								
	1 1																								
	5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7 7 7																								
	1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5																								

males  
(cont...)

Spleen	+ +																								
Hematopoietic Cell Proliferation																									
Hyperplasia, Histiocytic																									
Pigmentation	2 2 3 2 3 3																								
Lymphoid Follicle, Hyperplasia	2																								

Thymus	+ +																								
--------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

INTEGUMENTARY SYSTEM

Mammary Gland	+ +																								
Cyst	1 2 2 1 1 1 1 2 2 2 2 1 1 2 2 1 1 1 3 3																								
Hyperplasia	1 2 2 1 1 1 1 1 2 2 2 2 1 1 2 2 1 1 1 2 1																								

Skin	+ +																								
Cyst Epithelial Inclusion	X 3																								
Fibrosis	1																								
Hyperkeratosis	3 2																								
Inflammation, Suppurative	2																								
Inflammation, Granulomatous	3																								
Inflammation, Chronic																									
Ulcer																									
Epidermis, Hyperplasia	2																								

MUSCULOSKELETAL SYSTEM

Bone	+ +																								
Cranium, Osteopetrosis																									

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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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

Inflammation, Chronic																									2
Nasolacrimal Duct, Inflammation, Chronic																									2
Respiratory Epithelium, Hyperplasia	2																								2
Trachea	+ +																								

**SPECIAL SENSES SYSTEM**

Eye	+ +																								
Cataract																									2
Retina, Degeneration																									2
Retina, Edema																									
Sclera, Metaplasia, Osseous																									
Harderian Gland	+ +																								
Inflammation, Chronic	2																								

**URINARY SYSTEM**

Kidney	+ +																								
Cyst																									
Hydronephrosis																									
Nephropathy	2 2 3 2 2 3 1 3 2 1 1 2 3 2 1 1 2 1 2 2 2 3 2 3																								
Renal Tubule, Accumulation, Hyaline Droplet																									
Renal Tubule, Pigmentation	1																								3 1

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 2) Mild 4) Marked  
 Page 61

TDMS No. 99024 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Androstenedione

CAS Number: 63-05-8

Date Report Requested: 07/18/2008

Time Report Requested: 13:49:10

First Dose M/F: 02/03/03 / 02/03/03

Lab: SRI

	DAY ON TEST																								
	0731	0731	0736	0736	0738	0738	0738	0738	0738	0738	0738	0738	0738	0738	0738	0738	0738	0738	0738	0738	0738	0738	0738	0738	0738
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>50 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	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
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7
	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
Urinary Bladder Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

males (cont...)

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 + .. Tissue examined microscopically  
 x .. Lesion present  
 I .. Insufficient tissue  
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 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
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 2) Mild 4) Marked  
 Page 62

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	0																								* TOTALS	
	6	6	5	7	5	7	7	7	7	6	6	7	7	6	7	7	7	6	7	6	6	7	7	7		7
FISCHER 344 RATS MALE 50 MG/KG 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	* TOTALS
	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	
	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	
	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	+	+	+	A	+	+	+	+	+	+	+	48
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	A	A	+	+	+	+	+	+	44
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	47
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	A	+	+	+	+	+	+	47
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	A	A	+	+	+	+	+	+	44
Intestine Small, Jejunum	+	+	+	+	+	+	A	+	+	+	A	+	+	A	+	+	+	A	A	+	+	+	+	+	+	42
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis																	2									1 2.0
Basophilic Focus	X			X	X	X	X					X	X		X	X	X	X	X	X		X	X	X	X	33
Clear Cell Focus							X						X						X			X		X		14
Clear Cell Focus, Multiple						X																				3
Degeneration, Cystic				1						2				2	1						2		2			7 1.6
Eosinophilic Focus				X								X	X		X	X	X	X			X		X	X	13	
Hepatodiaphragmatic Nodule		2			2	2			2				2									2	2			10 2.0
Infiltration Cellular, Mixed Cell												1											2			4 1.5
Mixed Cell Focus						X																X				4
Necrosis, Focal																						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







TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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	* TOTALS		
	6	6	5	7	5	7	7	7	7	6	6	7	7	6	7	7	7	6	7	6	6	7	7	7	7		
	8	8	8	3	8	2	1	2	1	6	7	3	3	8	2	2	2	0	3	0	0	2	2	3	3		
	7	2	7	0	9	9	7	9	0	6	6	0	0	4	9	9	9	5	1	7	7	9	9	1	1		
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2		
<b>50 MG/KG</b>	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0		
	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		
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation, Chronic			2			1					2	2						2	1	2		2		2			
Epithelium, Hyperplasia										2	2			1				2		2				2		20 2.0 12 1.9	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Malformation																									1		
Germinal Epithelium, Atrophy					1									3		2	3						2		11 2.5		
Interstitial Cell, Hyperplasia																									2 1.0		
<b>HEMATOPOIETIC SYSTEM</b>																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia					3		3												3	3						7 2.9	
Lymph Node		+	+	+						+		+		+	+	+	+					+			13		
Pancreatic, Angiectasis				2																					1 2.0		
Pancreatic, Hyperplasia, Histiocytic				2									1												2 1.5		
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	+	M	M	M	+	M	M	M	M	M	M	M	M	M	M	2	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ectasia	3				2													2						2	5 2.2		
Hyperplasia, Histiocytic				2		2	2	2					2	1										2	19 1.5		
Hyperplasia, Lymphoid																									1 3.0		
Pigmentation													1												2 1.0		

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 M .. Missing tissue  
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 BLANK .. Not examined microscopically  
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 2) Mild 4) Marked

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	0 0																									
	6 6 5 7 5 7 7 7 7 6 6 7 7 6 7 7 7 6 7 6 6 7 7 7 7																									
FISCHER 344 RATS MALE 50 MG/KG ANIMAL ID	8 8 8 3 8 2 1 2 1 6 7 3 3 8 2 2 2 0 3 0 0 2 2 3 3																									
	7 2 7 0 9 9 7 9 0 6 6 0 0 4 9 9 9 5 1 7 7 9 9 1 1																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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	2
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hematopoietic Cell Proliferation																							2	2	2 2.0
Hyperplasia, Histiocytic				3																				2	1 3.0
Pigmentation					2	2						2					2								12 2.3
Lymphoid Follicle, Hyperplasia				3				3																	3 2.7
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	49

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cyst																2	2	2			2		2	11 2.2	
Hyperplasia	2	2	1	1	1	1	1	1	1	2	2	2		1	1	2	2	2		2	2	1	1	42 1.5	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst Epithelial Inclusion																									2 3.0
Fibrosis	2																2							3 1.7	
Hyperkeratosis				2		3											2		3				3	7 2.6	
Inflammation, Suppurative																									1 2.0
Inflammation, Granulomatous																									1 3.0
Inflammation, Chronic																							3	1 3.0	
Ulcer																							3	1 3.0	
Epidermis, Hyperplasia						2																	2	3 2.0	

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cranium, Osteopetrosis	2																								1 2.0

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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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

**FISCHER 344 RATS MALE**  
**50 MG/KG**

Skeletal Muscle																										5
Fibrosis					+	+							+													1 2.0

**NERVOUS SYSTEM**

Brain																										50
Compression																										9 2.4
Hemorrhage			3	3										2	3			3								4 2.5
Necrosis				3																						2 3.0
Peripheral Nerve																										4
Spinal Cord																										5

**RESPIRATORY SYSTEM**

Lung																										50
Hemorrhage																										1 2.0
Infiltration Cellular, Histiocyte																										18 1.1
Inflammation, Granulomatous																										1 2.0
Inflammation, Chronic																										3 1.7
Alveolar Epithelium, Hyperplasia																										4 2.0
Serosa, Cyst																										1 2.0
Nose																										50
Inflammation, Suppurative																										1 2.0

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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
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**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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

Inflammation, Chronic																										1	2.0	
Nasolacrimal Duct, Inflammation, Chronic																											1	2.0
Respiratory Epithelium, Hyperplasia																											3	2.0
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	49				
Cataract																											3	2	2.5	
Retina, Degeneration																											2	2	4	2.0
Retina, Edema																											2		1	2.0
Sclera, Metaplasia, Osseous																											1		1	1.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Inflammation, Chronic																											1	2.0		

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50																							
Cyst																												1	1	1.0																				
Hydronephrosis																												3	1	3.0																				
Nephropathy																												2	1	1	2	3	1	3	2	2	2	2	2	2	2	3	1	2	3	2	2	4	44	2.0
Renal Tubule, Accumulation, Hyaline Droplet																												4		1	4.0																			
Renal Tubule, Pigmentation																												1	1	3	6	1.7																		

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 Page 70

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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	
	6	6	5	7	5	7	7	7	7	6	6	7	7	6	7	7	7	6	7	6	6	7	7	7	7	7	
	8	8	8	3	8	2	1	2	1	6	7	3	3	8	2	2	2	0	3	0	0	2	2	3	3		
	7	2	7	0	9	9	7	9	0	6	6	0	0	4	9	9	9	5	1	7	7	9	9	1	1		
<b>FISCHER 344 RATS MALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>50 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	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	2	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>	
Urinary Bladder Hemorrhage	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	<b>1 3.0</b>

\*\*\* 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

Page 71

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

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 Lab: SRI

DAY ON TEST	0																								
	7	7	7	7	7	5	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	1	3	1	3	3	3	2	3	3	3	3	0	3	3	3	3	3	3	3	3
	2	2	2	2	2	2	3	9	3	3	1	9	1	1	1	3	8	3	3	3	1	1	1	1	1
<b>FISCHER 344 RATS FEMALE</b> ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	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
<b>0 MG/KG</b>																									

females  
(cont...)

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Rectum Edema	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum Serosa, Inflammation, Chronic	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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		X
Eosinophilic Focus					X			X				X												X
Fibrosis																								
Hematopoietic Cell Proliferation																								
Hepatodiaphragmatic Nodule					2			3								2								
Infiltration Cellular, Mixed Cell					2	1	1					1			1	1	1	1	1	1	1		1	
Mixed Cell Focus																								

\* .. 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

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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	
	7	7	7	7	7	5	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	3	3	3	3	3	1	3	1	3	3	3	2	3	3	3	3	0	3	3	3	3	3	3	3	
	2	2	2	2	2	2	3	9	3	3	1	9	1	1	1	3	8	3	3	3	1	1	1	1	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>ANIMAL ID</b>	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	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females  
(cont...)

Bile Duct, Hyperplasia 1 1 1  
 Hepatocyte, Vacuolization Cytoplasmic 2 3 1  
 Kupffer Cell, Pigmentation

Mesentery +  
 Accessory Spleen X  
 Fat, Necrosis 3 2 2 2 3 2

Pancreas +  
 Atrophy 1  
 Cyst 2 2

Salivary Glands +

Stomach, Forestomach +  
 Edema 4  
 Inflammation, Chronic Active 3  
 Ulcer 4  
 Epithelium, Hyperplasia 3

Stomach, Glandular +  
 Epithelium, Hyperplasia

Tongue +  
 Epithelium, Hyperplasia 2

**CARDIOVASCULAR 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  
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 1-4 .. Lesion qualified as:  
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 2) Mild 4) Marked  
 Page 73

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	0 0																								
	7 7 7 7 7 5 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7																								
FISCHER 344 RATS FEMALE 0 MG/KG	3 3 3 3 3 1 3 1 3 3 3 2 3 3 3 3 0 3 3 3 3 3 3 3 3																								
	2 2 2 2 2 2 3 9 3 3 1 9 1 1 1 3 8 3 3 3 1 1 1 1 1																								
ANIMAL ID	0 0																								
	0 0																								
	2 2																								
	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																								
	females (cont...)																								

Blood Vessel	+												+												
Heart	+ +																								
Cardiomyopathy	2 2 1 2 2 2 2 2 2 2 1 1 2 1 1 2 2 2 2 2 2 2 2 2 2																								

ENDOCRINE SYSTEM

Adrenal Cortex	+ +																								
Accessory Adrenal Cortical Nodule																									
Angiectasis																									
Degeneration, Fatty	2 2 2 3 3 1 2																								
Hyperplasia, Focal	2 1 1 3 2 1 2																								
Hypertrophy, Focal	2 1 2																								
Adrenal Medulla	+ +																								
Hyperplasia	2																								
Islets, Pancreatic	+ +																								
Parathyroid Gland	+ M + + + + +																								
Pituitary Gland	+ +																								
Pars Distalis, Cyst	2 3 2 2 2 2 3 2 3																								
Pars Distalis, Hyperplasia, Focal	2 2 2 2 2 2 2 2																								
Pars Intermedia, Angiectasis	1 2 2 2 2																								
Rathke's Cleft, Cyst	3 3																								
Thyroid Gland	+ +																								

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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	ANIMAL ID																									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	0	0	
7	7	7	7	7	5	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
3	3	3	3	3	1	3	1	3	3	3	3	2	3	3	3	3	0	3	3	3	3	3	3	3	3	
2	2	2	2	2	2	3	9	3	3	1	9	1	1	1	3	8	3	3	3	1	1	1	1	1		
.....																										
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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	1	1	1	1	1	1	
	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	

C-cell, Hyperplasia 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2  
 Follicular Cell, Hyperplasia

**GENERAL BODY SYSTEM**  
 NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst				3							3			2						3	3			
Hyperplasia	3		2																					
Inflammation, Suppurative																								
Inflammation, Chronic			2	1			1			1	1		1	1	1	1		1			1	1	1	1
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst							3															2		
Bursa, Dilatation			3						X											3				
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Cystic					2										2							1	1	
Inflammation, Suppurative																								

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia								3																4

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TDMS No. 99024 - 07  
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Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
Androstenedione  
CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
Time Report Requested: 13:49:10  
First Dose M/F: 02/03/03 / 02/03/03  
Lab: SRI

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
<b>FISCHER 344 RATS FEMALE</b> <b>0 MG/KG</b>	ANIMAL ID	7	7	7	7	7	5	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
		3	3	3	3	3	1	3	1	3	3	3	3	2	3	3	3	3	0	3	3	3	3	3
		2	2	2	2	2	2	3	9	3	3	1	9	1	1	1	3	8	3	3	3	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Lymph Node																									+
Deep Cervical, Necrosis																									
Mediastinal, Hyperplasia, Lymphoid																									2
Mediastinal, Infiltration Cellular, Mast Cell																									
Mediastinal, Pigmentation																									
Pancreatic, Hemorrhage																									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	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia																									
Hyperplasia, Histiocytic		1	1	1				1	2					2	1			2	2	2	2	2			
Pigmentation																									
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation																									
Pigmentation	2	2	2	2	3		2		2	2	2	3	2	2	2	1		2	1	2	3	2	2	1	
Lymphoid Follicle, Hyperplasia																									
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst		3	3		2			1				2	2	1		2	1	1		1				
Hyperplasia	2	2	2	2	2		2	2	1	1	2	2	2	2	3	3	3	3	2	2	2	2	3	2
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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Page 76

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

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 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

	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
	7	7	7	7	7	5	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	3	3	3	3	3	1	3	1	3	3	3	2	3	3	3	3	0	3	3	3	3	3	3	3	
	2	2	2	2	2	2	3	9	3	3	1	9	1	1	1	3	8	3	3	3	1	1	1	1	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

**females (cont...)**

**MUSCULOSKELETAL SYSTEM**

Bone +

**NERVOUS SYSTEM**

Brain +  
 Compression 3 2 1  
 Hemorrhage  
 Hydrocephalus

Peripheral Nerve

Spinal Cord

**RESPIRATORY SYSTEM**

Lung +  
 Infiltration Cellular, Histiocyte 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1  
 Inflammation, Chronic 2  
 Alveolar Epithelium, Hyperplasia 3 2 1 2 2

Nose +  
 Foreign Body 2 2  
 Inflammation, Suppurative

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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
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 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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
DAY ON TEST		7	7	7	7	7	5	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
DAY ON TEST		3	3	3	3	3	1	3	1	3	3	3	3	2	3	3	3	3	0	3	3	3	3	3	3
DAY ON TEST		2	2	2	2	2	2	3	9	3	3	1	9	1	1	1	3	8	3	3	3	1	1	1	1
<b>FISCHER 344 RATS FEMALE</b> <b>0 MG/KG</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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	
	ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	
	ANIMAL ID	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

females  
(cont...)

Inflammation, Chronic  
 Respiratory Epithelium, Hyperplasia

2 2  
 2 2

Trachea +

**SPECIAL SENSES SYSTEM**

Eye + + + + + A +  
 Atrophy  
 Cataract  
 Sclera, Metaplasia, Osseous 2

Harderian Gland +

Lacrimal Gland +

**URINARY SYSTEM**

Kidney +  
 Cyst  
 Infarct 3  
 Nephropathy 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 2 1  
 Renal Tubule, Accumulation, Hyaline Droplet 2  
 Renal Tubule, Pigmentation

Urinary Bladder +

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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
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 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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	
		7	7	7	7	7	5	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
		3	3	3	3	3	1	3	1	3	3	3	3	2	3	3	3	3	0	3	3	3	3	3	3	
		2	2	2	2	2	2	3	9	3	3	1	9	1	1	1	3	8	3	3	3	1	1	1	1	
<b>FISCHER 344 RATS FEMALE</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/KG</b>		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

**females  
(cont...)**

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
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 Page 79

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Edema				2																						1 2.0
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Ileum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Serosa, Inflammation, Chronic																										1 2.0
Intestine Small, Jejunum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Basophilic Focus	X	X	X	X	X	X	X	X	X		X	X	X	X		X		X	X	X	X	X	X	X	X	47
Clear Cell Focus			X			X		X				X									X	X		X		14
Eosinophilic Focus														X												5
Fibrosis																	2									1 2.0
Hematopoietic Cell Proliferation										1																1 1.0
Hepatodiaphragmatic Nodule				2	2			2		2		2									2					10 2.1
Infiltration Cellular, Mixed Cell			1					1	1		1		1			1				1	1		1	1		21 1.0
Mixed Cell Focus							X																			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  
 2) Mild 4) Marked

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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	
	7	7	6	7	6	7	6	7	6	7	7	7	7	7	6	6	7	7	7	6	7	7	6	7		
	3	3	8	3	9	3	8	3	8	3	3	3	3	3	0	1	1	3	3	3	2	3	3	2	3	
	2	2	9	2	9	6	8	6	9	2	2	2	2	2	3	9	9	6	6	6	1	2	2	1	2	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	5	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>
Bile Duct, Hyperplasia																										
Hepatocyte, Vacuolization Cytoplasmic																										
Kupffer Cell, Pigmentation																										
Mesentery																										
Accessory Spleen																										
Fat, Necrosis																										
Pancreas																										
Atrophy																										
Cyst																										
Salivary Glands																										
Stomach, Forestomach																										
Edema																										
Inflammation, Chronic Active																										
Ulcer																										
Epithelium, Hyperplasia																										
Stomach, Glandular																										
Epithelium, Hyperplasia																										
Tongue																										
Epithelium, Hyperplasia																										

**CARDIOVASCULAR 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  
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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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

Inflammation, Chronic Respiratory Epithelium, Hyperplasia	2																									<b>3 2.0</b>	
	2							2							2	2											<b>7 2.0</b>
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>49</b>	
Atrophy																										4	<b>1 4.0</b>
Cataract	4										3															4	<b>3 3.7</b>
Sclera, Metaplasia, Osseous																											<b>1 2.0</b>
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Lacrimal Gland																											<b>1</b>

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	
Cyst																										3	<b>2 3.0</b>
Infarct																										2	<b>2 2.5</b>
Nephropathy	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		<b>48 1.1</b>
Renal Tubule, Accumulation, Hyaline Droplet																										3	<b>3 2.7</b>
Renal Tubule, Pigmentation																										3	<b>1 3.0</b>
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>	

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 2) Mild 4) Marked  
 Page 86

**TDMS No.** 99024 - 07  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
**CAS Number:** 63-05-8

**Date Report Requested:** 07/18/2008  
**Time Report Requested:** 13:49:10  
**First Dose M/F:** 02/03/03 / 02/03/03  
**Lab:** SRI

DAY ON TEST	0																							* TOTALS		
	7	7	6	7	6	7	6	7	6	7	7	7	7	7	6	6	7	7	7	6	7	7	6		7	
	3	3	8	3	9	3	8	3	8	3	3	3	3	3	0	1	1	3	3	3	2	3	3	2	3	
	2	2	9	2	9	6	8	6	9	2	2	2	2	2	3	9	9	6	6	6	1	2	2	1	2	
.....																										
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>0 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>ANIMAL ID</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	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	

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 Page 87  
 1-4 .. Lesion qualified as:  
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 2) Mild 4) Marked

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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
		4	7	7	7	7	7	7	7	7	3	7	7	7	6	7	7	7	7	7	6	7	7	7	7	7
		8	2	3	3	3	3	3	3	3	3	3	3	3	6	3	3	3	3	3	3	3	3	3	3	3
		5	6	1	1	1	3	3	3	3	7	1	1	1	8	1	2	2	2	2	2	9	6	6	6	2
<b>FISCHER 344 RATS FEMALE</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	<b>10 MG/KG</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
		5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	
																										<b>females (cont...)</b>

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	A	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+
Intestine Large, Rectum	+	A	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	A	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis							2																		
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	X
Clear Cell Focus				X		X			X												X				
Fibrosis														1											
Hepatodiaphragmatic Nodule						1														2					
Infiltration Cellular, Mixed Cell	1		1	1	2	1	1	1	1		1	2		1	1	2		2	1		1		2		
Bile Duct, Hyperplasia		2						1			1	1	1					2					1	1	
Hepatocyte, Vacuolization Cytoplasmic																							2		
Mesentery							+					+					+	+	+				+	+	

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

+ .. Tissue examined microscopically

x .. Lesion present

l .. Insufficient tissue

M .. Missing tissue

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2) Mild 4) Marked

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	FISCHER 344 RATS FEMALE																									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	
4	7	7	7	7	7	7	7	7	3	7	7	7	6	7	7	7	7	7	6	7	7	7	7	7	7	7	
8	2	3	3	3	3	3	3	3	3	3	3	3	6	3	3	3	3	3	3	3	3	3	3	3	3	3	
5	6	1	1	1	3	3	3	3	7	1	1	1	8	1	2	2	2	2	2	9	6	6	6	6	6	6	

Fat, Necrosis							2						2														
Oral Mucosa																											
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy				2																		1					
Cyst							1															2					
Acinus, Cytoplasmic Alteration																								3			2 3
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																											
Vacuolization Cytoplasmic																											
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema																											
Ulcer																											
Epithelium, Hyperplasia																2											
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Hyperplasia																2											

CARDIOVASCULAR SYSTEM

Blood Vessel																											
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	2	3	1	2	2	1	2	2	2	1	2	2	2		2	1	2	1		2		2		2	2	2	
Thrombosis																											

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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	0																								
	4	7	7	7	7	7	7	7	7	7	3	7	7	7	6	7	7	7	7	7	6	7	7	7	7
8	2	3	3	3	3	3	3	3	3	3	3	3	3	6	3	3	3	3	3	3	3	3	3	3	3
5	6	1	1	1	3	3	3	3	3	7	1	1	1	8	1	2	2	2	2	2	9	6	6	6	2
FISCHER 344 RATS FEMALE 10 MG/KG 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
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
5	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7
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...)

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accessory Adrenal Cortical Nodule																									
Degeneration, Fatty							2																		
Hematopoietic Cell Proliferation																									
Hyperplasia, Focal																									
Hypertrophy, Focal	1																								
Hypertrophy, Diffuse																									
Necrosis																									
Capsule, Developmental Malformation																									
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																									
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																									
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Angiectasis																									
Pars Distalis, Cyst																									
Pars Distalis, Hyperplasia, Focal																									
Rathke's Cleft, Cyst																									
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
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 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

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 Lab: SRI

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
	4	7	7	7	7	7	7	7	7	3	7	7	7	6	7	7	7	7	7	6	7	7	7	7	7	7
	8	2	3	3	3	3	3	3	3	3	3	3	3	6	3	3	3	3	3	3	3	3	3	3	3	3
	5	6	1	1	1	3	3	3	3	7	1	1	1	8	1	2	2	2	2	2	9	6	6	6	2	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>10 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7
	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	<b>females (cont...)</b>

C-cell, Hyperplasia 2 1 2 2 1 1 2 2 2 1  
 Follicle, Cyst 2

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst									3																3
Hyperplasia									4											2					
Inflammation, Chronic	1	1	1	1	1	1	1				1			1	1		1					1	1	1	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst								3																	
Bursa, Dilatation													3							3					
Corpus Luteum, Hyperplasia																									
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																									2
Hyperplasia, Cystic	2										1								2			3			
Thrombosis																									

Vagina

**HEMATOPOIETIC SYSTEM**

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 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
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 Lab: SRI

DAY ON TEST	FISCHER 344 RATS FEMALE																									females (cont...)
	ANIMAL ID																									
10 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	7	7	7	7	7	7	7	7	3	7	7	7	6	7	7	7	7	6	7	7	7	6	7	7	7
	8	2	3	3	3	3	3	3	3	3	3	3	3	6	3	3	3	3	3	3	3	3	3	3	3	3
	5	6	1	1	1	3	3	3	3	7	1	1	1	8	1	2	2	2	2	9	6	6	6	6	2	
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Hyperplasia														2						2						
Thrombosis																										
Lymph Node	+	+			+																				+	
Mediastinal, Ectasia																										
Mediastinal, Hemorrhage						1																				
Mediastinal, Hyperplasia, Lymphoid	3																									
Pancreatic, Hemorrhage																									2	
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Histiocytic	2		1	2	2	2	2	2	1					2		2	1		1		1	2	2	2	2	
Hyperplasia, Lymphoid																										
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	
Hematopoietic Cell Proliferation																										
Hemorrhage																										
Pigmentation	3	1	1	2	1	2	2	2	3	2	2	2	2	3	2	2	2	1	2	3		3	1	1	1	
Lymphoid Follicle, Hyperplasia																									3	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage														2												

INTEGUMENTARY 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  
 Page 92

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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
	4	7	7	7	7	7	7	7	7	3	7	7	7	6	7	7	7	7	7	6	7	7	7	7	7	
	8	2	3	3	3	3	3	3	3	3	3	3	3	6	3	3	3	3	3	3	3	3	3	3	3	
	5	6	1	1	1	3	3	3	3	7	1	1	1	8	1	2	2	2	2	2	9	6	6	6	2	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>10 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

females  
(cont...)

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst														1											
Hyperplasia		1		2	2	2	3	3	2		1	3	1	3	2	2	3	2	2	1	1	2	2		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion																									
Hyperkeratosis																									

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle																									
Inflammation, Chronic																									

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Compression		2			2		2							2			2								
Hydrocephalus																									

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Congestion																									
Emphysema														3											

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+ .. Tissue examined microscopically

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1-4 .. Lesion qualified as:

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TDMS No. 99024 - 07  
Test Type: CHRONIC  
Route: GAVAGE  
Species/Strain: RATS/F 344

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Androstenedione  
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Date Report Requested: 07/18/2008  
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First Dose M/F: 02/03/03 / 02/03/03  
Lab: SRI

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			
		4	7	7	7	7	7	7	7	7	3	7	7	7	6	7	7	7	7	6	7	7	7	7			
		8	2	3	3	3	3	3	3	3	3	3	3	3	6	3	3	3	3	3	3	3	3	3			
		5	6	1	1	1	3	3	3	3	7	1	1	1	8	1	2	2	2	2	2	2	2	2			
FISCHER 344 RATS FEMALE		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
10 MG/KG 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			
		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
		5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7			
		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...)
Hemorrhage																											
Infiltration Cellular, Histiocyte		1		1	2	1	1	1		1		1	1	1		2		2	2	1		1		1	1		
Inflammation, Chronic																				2							
Pigmentation																											
Alveolar Epithelium, Hyperplasia						1	1				1	2							2	1				1			
Artery, Hypertrophy		2																									
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Foreign Body																											
Inflammation, Suppurative																											
Inflammation, Chronic																											
Respiratory Epithelium, Hyperplasia					2	1														2							
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
<b>SPECIAL SENSES SYSTEM</b>																											
Ear																											
Inflammation, Suppurative																											
Eye		+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	
Atrophy					3																						
Cornea, Inflammation, Chronic		1																									
Retina, Degeneration																											
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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
	4	7	7	7	7	7	7	7	7	3	7	7	7	6	7	7	7	7	7	6	7	7	7	7	
	8	2	3	3	3	3	3	3	3	3	3	3	3	6	3	3	3	3	3	3	3	3	3	3	
	5	6	1	1	1	3	3	3	3	7	1	1	1	8	1	2	2	2	2	9	6	6	6	2	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>10 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	
	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...)

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
Glomerulosclerosis			3																					
Nephropathy	1	1	1	2	2	1	1	1	1		1	2	2	1	1	1	1	1	1		1	1	1	1
Renal Tubule, Vacuolization Cytoplasmic																								
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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 + .. Tissue examined microscopically  
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 1) Minimal 3) Moderate  
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Page 95

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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	0	0	
7	7	7	6	7	7	6	7	7	7	7	7	7	7	6	7	7	7	6	6	6	7	6	7	7	0
3	3	3	1	3	3	8	3	3	3	3	0	3	3	5	3	3	3	5	9	5	3	7	3	3	0
3	3	3	0	3	3	9	3	3	3	2	4	2	2	2	2	2	2	9	7	2	6	9	6	6	0
.....																									
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>10 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	0
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	0
	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	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	46
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	46
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Angiectasis																									1 2.0
Basophilic Focus	X	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		10
Fibrosis																									1 1.0
Hepatodiaphragmatic Nodule						X		1			X							2				2	2	2	9 1.7
Infiltration Cellular, Mixed Cell	1		1		1		1	1	1	1	1	1	1		1	1	1					2	1	1	33 1.2
Bile Duct, Hyperplasia			1							2		1	1		1	1	1					2			16 1.3
Hepatocyte, Vacuolization Cytoplasmic														4							4	2			4 3.0
Mesentery				+							+									+	+	+	+	+	14

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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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	* TOTALS	
FISCHER 344 RATS FEMALE	7	7	7	6	7	7	6	7	7	7	7	7	7	6	7	7	7	6	6	6	7	6	7	7	7	7	0	
10 MG/KG	3	3	3	1	3	3	8	3	3	3	3	0	3	3	5	3	3	3	5	9	5	3	7	3	3	3		
ANIMAL ID	3	3	3	0	3	3	9	3	3	3	2	4	2	2	2	2	2	2	9	7	2	6	9	6	6			
Fat, Necrosis				2							2							2	2	3	2	2					14 2.2	
Oral Mucosa																											1	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy	4		2	1				2				1						2				1		2			10 1.8	
Cyst				2										2									1				7 1.7	
Acinus, Cytoplasmic Alteration														2						3							4 2.8	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy				2																								1 2.0
Vacuolization Cytoplasmic																			4								1 4.0	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Edema												2			3							2					3 2.3	
Ulcer														4							2						2 3.0	
Epithelium, Hyperplasia																					2						1 2.0	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Epithelium, Hyperplasia															3													2 2.5

CARDIOVASCULAR SYSTEM

Blood Vessel																												1
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cardiomyopathy	2	2	2	2	2	2	2	2	2	2	1	2	1	2		1		2		1	1	1	2	1	2		43 1.7	
Thrombosis														3				2										2 2.5

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 97

1-4 .. Lesion qualified as:

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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

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 CAS Number: 63-05-8

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 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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		
	7	7	7	6	7	7	6	7	7	7	7	7	7	6	7	7	7	6	6	6	7	6	7	7		
	3	3	3	1	3	3	8	3	3	3	3	0	3	3	5	3	3	3	5	9	5	3	7	3	3	
	3	3	3	0	3	3	9	3	3	3	2	4	2	2	2	2	2	2	9	7	2	6	9	6	6	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>10 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	<b>* TOTALS</b>

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Accessory Adrenal Cortical Nodule														2											3	<b>2.0</b>
Degeneration, Fatty		3							1				1	1	2	3	1			3	1	4			20	<b>1.9</b>
Hematopoietic Cell Proliferation				1			2																		2	<b>1.5</b>
Hyperplasia, Focal																									4	<b>1.5</b>
Hypertrophy, Focal						3		2		2					3							2			10	<b>2.1</b>
Hypertrophy, Diffuse																									1	<b>2.0</b>
Necrosis																				2					1	<b>2.0</b>
Capsule, Developmental Malformation																									1	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia													2												1	<b>2.0</b>
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia					2			2																1	4	<b>1.8</b>
Parathyroid Gland	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pars Distalis, Angiectasis					3																				1	<b>3.0</b>
Pars Distalis, Cyst	2	2									3									2				12	<b>2.4</b>	
Pars Distalis, Hyperplasia, Focal							2		2						2	2	2						2	3	20	<b>1.9</b>
Rathke's Cleft, Cyst																				1					1	<b>1.0</b>
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	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  
 Page 98





TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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
	7	7	7	6	7	7	6	7	7	7	7	7	7	6	7	7	7	6	6	6	7	6	7	7	7	
	3	3	3	1	3	3	8	3	3	3	3	0	3	3	5	3	3	3	5	9	5	3	7	3	3	
	3	3	3	0	3	3	9	3	3	3	2	4	2	2	2	2	2	2	9	7	2	6	9	6	6	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>10 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>ANIMAL ID</b>	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
	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

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Cyst																										3	1	3.0	
Hyperplasia	3		2	2		2		3	3				3	2	2	2	2	2	2	3	3	3	4	3	3	2	40	2.3	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cyst Epithelial Inclusion						2																						1	2.0
Hyperkeratosis																											3	1	3.0

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Skeletal Muscle																													1	2.0	
Inflammation, Chronic																													2	1	3.0

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50					
Compression																														2	3	3.0	
Hydrocephalus																															3	1	3.0

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50				
Congestion																																1	3.0
Emphysema																															3	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  
 Page 101

TDMS No. 99024 - 07

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione

CAS Number: 63-05-8

Date Report Requested: 07/18/2008

Time Report Requested: 13:49:10

First Dose M/F: 02/03/03 / 02/03/03

Lab: SRI

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
	7	7	7	6	7	7	6	7	7	7	7	7	7	6	7	7	7	6	6	6	7	6	7	7	3	3	3	3	3				
		3	3	3	1	3	3	8	3	3	3	3	0	3	3	5	3	3	3	5	9	5	3	7	3	3	3	3					
		3	3	3	0	3	3	9	3	3	3	2	4	2	2	2	2	2	2	9	7	2	6	9	6	6	6	6					
.....																																	
FISCHER 344 RATS FEMALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
10 MG/KG	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3				
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	0	0				
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	0	0	0	0				
.....																																	
* TOTALS																																	
Hemorrhage																													1	1.0			
Infiltration Cellular, Histiocyte	1	1	1		2	1	1	1	1	2	2	2	1	1	1	1	1	1			2				1	1			37	1.2			
Inflammation, Chronic																															1	2.0	
Pigmentation														2																	1	2.0	
Alveolar Epithelium, Hyperplasia					3	1												2		1				2			1			13	1.5		
Artery, Hypertrophy																															1	2.0	
.....																																	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Foreign Body				1						2	2						2														4	1.8	
Inflammation, Suppurative						2				2																					2	2.0	
Inflammation, Chronic				3													3														2	3.0	
Respiratory Epithelium, Hyperplasia				3	2											2	2								2						8	2.0	
.....																																	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
.....																																	
<b>SPECIAL SENSES SYSTEM</b>																																	
.....																																	
Ear	+																													1			
Inflammation, Suppurative	3																														1	3.0	
.....																																	
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48			
Atrophy																																1	3.0
Cornea, Inflammation, Chronic																																1	1.0
Retina, Degeneration																															3	1	3.0
.....																																	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	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







TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL  
 Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
FISCHER 344 RATS FEMALE		7	7	7	7	7	7	7	7	7	7	7	5	7	6	7	7	7	6	7	5	6	5	4	7	7	
20 MG/KG		3	3	3	3	3	3	3	3	3	3	9	3	5	3	3	3	1	3	4	4	4	4	3	3		
ANIMAL ID		3	3	3	3	3	6	6	6	6	6	6	6	6	6	3	3	9	3	7	0	7	2	3	3		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2		
		1	2	3	4	5	6	7	8	9	0	1	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

females  
(cont...)

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accessory Adrenal Cortical Nodule																									
Degeneration, Fatty	2			1						2		1			3	1	2		3			2		1	
Hyperplasia, Focal																								2	
Hypertrophy, Focal				2			2								2	2	2							2	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																									
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia												2													
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+
Pars Distalis, Angiectasis																									
Pars Distalis, Cyst				3	2				1						2			3	2			2		3	
Pars Distalis, Hyperplasia, Focal	2		2							1					2			2			2			3	
Rathke's Cleft, Cyst																									
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ultimobranchial Cyst						2																			
C-cell, Hyperplasia	2			2		1				2	2		2	1	2	2	1			1				2	
Follicle, Cyst							2																		

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 x .. Lesion present  
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 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

	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	
	7	7	7	7	7	7	7	7	7	7	7	5	7	6	7	7	7	6	7	5	6	5	4	7	7	
	3	3	3	3	3	3	3	3	3	3	3	9	3	5	3	3	3	1	3	4	4	4	4	3	3	
	3	3	3	3	3	6	6	6	6	6	6	6	6	2	6	3	3	9	3	7	0	7	2	3	3	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>20 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	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	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5
	<b>females (cont...)</b>																									

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst				2								3	3				3							
Inflammation, Suppurative																								3
Inflammation, Chronic		2			1		1	1					3	2		2	1		2			1		
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																								
Bursa, Dilatation												3												
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Decidual Reaction																	3							
Hemorrhage																								
Hyperplasia, Cystic				2		2		2				2		1	2				1					
Epithelium, Hyperplasia																					2			

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																								
Hyperplasia				2																	3	3		

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+ .. 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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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	FISCHER 344 RATS FEMALE																									females (cont...)	
	ANIMAL ID																										
20 MG/KG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	5	7	6	7	7	7	6	7	5	6	5	4	7	7			
	3	3	3	3	3	3	3	3	3	3	9	3	5	3	3	3	1	3	4	4	4	4	3	3			
	3	3	3	3	3	6	6	6	6	6	6	6	2	6	3	3	9	3	7	0	7	2	3	3			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	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	0	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		
Lymph Node	+	+	+	+									+	+	+	+											
Congestion																											
Deep Cervical, Ectasia																											
Mediastinal, Ectasia																											
Mediastinal, Hemorrhage																											
Mediastinal, Hyperplasia, Lymphoid																											
Pancreatic, Ectasia																											
Pancreatic, Hemorrhage																											
Pancreatic, Hyperplasia, Histiocytic																											
Lymph Node, Mandibular	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia																											
Hemorrhage																											
Hyperplasia, Histiocytic																											
Hyperplasia, Lymphoid																											
Pigmentation																											
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrosis																											
Hematopoietic Cell Proliferation																											
Hemorrhage																											
Pigmentation																											
Lymphoid Follicle, Hyperplasia																											
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**INTEGUMENTARY 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  
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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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
	7	7	7	7	7	7	7	7	7	7	5	7	6	7	7	7	6	7	5	6	5	4	7	7	
	3	3	3	3	3	3	3	3	3	3	9	3	5	3	3	3	1	3	4	4	4	4	3	3	
	3	3	3	3	3	6	6	6	6	6	6	6	2	6	3	3	9	3	7	0	7	2	3	3	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>20 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>ANIMAL ID</b>	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	0	0	0	0	0	0	0	0	0	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
																									<b>females (cont...)</b>

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																									
Hyperplasia	2	2	2	3							3	1	2	3	1	2	2	2	3	2	2	3		1	2
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Compression																									

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Histiocyte	1			1	1					2	1			1	1	2	1		1	1			1	1	1
Inflammation, Chronic																									
Alveolar Epithelium, Hyperplasia					1	2						1					2		2						3
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Foreign Body																									
Inflammation, Suppurative																									

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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 I .. Insufficient tissue  
 M .. Missing tissue  
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 1) Minimal 3) Moderate  
 2) Mild 4) Marked













TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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	0	0	
6	6	7	7	5	6	7	7	7	7	7	6	5	7	7	7	7	7	7	5	7	7	7	5	6	
4	4	3	3	7	8	3	3	3	3	2	8	5	3	3	3	3	3	3	4	3	3	3	9	1	
3	1	2	2	5	8	2	2	2	2	7	7	2	1	1	2	2	2	2	7	1	1	1	2	9	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>20 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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	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

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cyst						2	1	4					1						3						9 2.1
Hyperplasia	2			1	2	2	3	1			1	3	2		2	2		2	2	3	1		1	3	35 2.0
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Compression												2								2					4 2.5

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Infiltration Cellular, Histiocyte				1			1	1		1			1	1	1	1	1			1	1	1			26 1.1
Inflammation, Chronic																							2		1 2.0
Alveolar Epithelium, Hyperplasia			2			2					2									2		2			11 1.9
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Foreign Body											2					1	1						1	6 1.5	
Inflammation, Suppurative			3							2															3 2.3

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 M .. Missing tissue  
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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	ANIMAL ID																									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	0	0	
5	7	6	7	7	7	7	7	7	7	6	5	5	7	7	6	7	7	7	7	7	7	7	7	6	7	0
4	3	2	3	3	3	3	3	3	3	8	2	6	3	3	1	3	3	3	3	3	3	3	3	3	3	0
7	2	5	2	2	2	2	2	2	2	8	0	0	3	3	0	6	6	6	6	6	6	2	2	2	2	0

  

FISCHER 344 RATS FEMALE 50 MG/KG	ANIMAL ID																									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	0	0	
	0	0	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	0
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	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	0

**ALIMENTARY SYSTEM**

Esophagus	+ +																								
Intestine Large, Cecum	+ + + + + + + + + + + A + + + + + + + + + + + + + + + +																								
Intestine Large, Colon	+ + + + + + + + + + + A + + + + + + + + + + + + + + + +																								
Intestine Large, Rectum	+ + + + + + + + + + + A + + + + + + + + + + + + + + + +																								
Intestine Small, Duodenum	+ + + + + + + + + + + A + + + + + + + + + + + + + + + +																								
Intestine Small, Ileum	+ + + + + + + + + + + A + + + + + + + + + + + + + + + +																								
Intestine Small, Jejunum	+ + + + + + + + + + + A + + + + + + + + + + + + + + + +																								
Liver	+ +																								
Angiectasis																									
Basophilic Focus	X X																								
Clear Cell Focus	X X																								
Degeneration, Cystic Hemorrhage																									
Hepatodiaphragmatic Nodule	2 2																								
Infiltration Cellular, Mixed Cell	1 1																								
Necrosis, Focal																									
Bile Duct, Hyperplasia	1 1 2 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2																								
Centrilobular, Necrosis																									

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 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

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 CAS Number: 63-05-8

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 Lab: SRI

DAY ON TEST	ANIMAL ID																									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	0	0	
5	7	6	7	7	7	7	7	7	7	6	5	5	7	7	6	7	7	7	7	7	7	7	6	7	0	
4	3	2	3	3	3	3	3	3	3	8	2	6	3	3	1	3	3	3	3	3	3	3	3	3	0	
7	2	5	2	2	2	2	2	2	2	8	0	0	3	3	0	6	6	6	6	6	6	2	2	2	0	

**FISCHER 344 RATS FEMALE**

**50 MG/KG**

**CARDIOVASCULAR SYSTEM**

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy	2	3	2	2	2	2	2	1	1	1		2	2	2	2	2	2	2	2	2	2	2	3	2
Thrombosis															3									

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Degeneration, Fatty	3						1					1		2	2								3	
Hematopoietic Cell Proliferation			1																					
Hyperplasia, Focal																						2		
Hypertrophy, Focal																								1
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																								
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia							2			2			2		1									2
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+	M	+	+
Hyperplasia																								
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Angiectasis																						3		
Pars Distalis, Cyst			2		4	3	2			2				2							1		3	
Pars Distalis, Hyperplasia, Focal			3	1		1			1					1	2	1				1		1	2	2

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 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

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 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

DAY ON TEST	ANIMAL ID																									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	0	0	
5	7	6	7	7	7	7	7	7	7	6	5	5	7	7	6	7	7	7	7	7	7	7	6	7	0	
4	3	2	3	3	3	3	3	3	3	8	2	6	3	3	1	3	3	3	3	3	3	3	3	3	0	
7	2	5	2	2	2	2	2	2	2	8	0	0	3	3	0	6	6	6	6	6	6	2	2	2	0	

**FISCHER 344 RATS FEMALE**  
 50 MG/KG

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ultimobranchial Cyst																									
C-cell, Hyperplasia		1		2	1	3	2		1				2	2					1		1		2	1	1
Follicle, Cyst														2											

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst	3																								
Hyperplasia																									
Inflammation, Suppurative																									
Inflammation, Chronic		2											1	2					1	2	1	1	2	1	2
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis													2												
Cyst													3												
Infiltration Cellular, Histiocyte																					2				
Bursa, Dilatation			3		3		3	3															3		
Follicle, Cyst							2																		
Interstitial Cell, Cyst							2																		
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																									
Hyperplasia, Cystic	2		2		1	2	2													2			1	1	1

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TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

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 CAS Number: 63-05-8

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 Lab: SRI

DAY ON TEST	ANIMAL ID																									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	0	0	
5	7	6	7	7	7	7	7	7	6	5	5	7	7	6	7	7	7	7	7	7	7	7	6	7	0	
4	3	2	3	3	3	3	3	3	8	2	6	3	3	1	3	3	3	3	3	3	3	3	3	3	0	
7	2	5	2	2	2	2	2	2	8	0	0	3	3	0	6	6	6	6	6	6	2	2	2	2	0	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>50 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	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	
	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	3	
	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	7

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																									2
Hyperplasia	1		2																						3
Inflammation, Suppurative																									3 2 3 1 3 2 1 2 2
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion																									3
Hyperkeratosis																									2 4

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperostosis																									3

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Compression																									2 3 3 1
Hemorrhage																									
Peripheral Nerve																									+
Spinal Cord																									+

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TDMS No. 99024 - 07  
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 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

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 Lab: SRI

DAY ON TEST	ANIMAL ID																									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	0	0	
5	7	6	7	7	7	7	7	7	7	6	5	5	7	7	6	7	7	7	7	7	7	7	6	7		
4	3	2	3	3	3	3	3	3	3	8	2	6	3	3	1	3	3	3	3	3	3	3	3	3		
7	2	5	2	2	2	2	2	2	2	8	0	0	3	3	0	6	6	6	6	6	2	2	2	2		
.....																										
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
<b>50 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7		
	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	
Nephropathy	3	1	1	1		1	1	1	1	2		1	1	2	1	1	1	1	1	1	1	1	1	1		
Renal Tubule, Accumulation, Hyaline Droplet										3																
Renal Tubule, Necrosis																										
Renal Tubule, Pigmentation																3							3			
.....																										
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

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 Page 125





TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

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 CAS Number: 63-05-8

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 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

	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	
	5	7	6	7	7	7	7	7	5	7	7	7	7	7	6	7	7	7	7	5	7	6	7	7	
	8	2	7	2	2	3	3	3	1	3	2	2	2	2	1	3	3	3	3	3	3	0	3	3	
	4	9	4	9	9	3	3	3	0	3	9	9	9	9	0	3	3	3	3	4	2	5	2	2	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>50 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	<b>* TOTALS</b>

**CARDIOVASCULAR SYSTEM**

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Cardiomyopathy	1	2	2	2	2	2	2	1	2	2	2	2	2	2	1	1	2	2	2	2	2	2	2	2		<b>48</b>	<b>1.9</b>
Thrombosis																										<b>1</b>	<b>3.0</b>

**ENDOCRINE SYSTEM**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Degeneration, Fatty	3			2							2					1	1	1			3					<b>13</b>	<b>1.9</b>
Hematopoietic Cell Proliferation																										<b>1</b>	<b>1.0</b>
Hyperplasia, Focal												2														<b>2</b>	<b>2.0</b>
Hypertrophy, Focal																					1					<b>2</b>	<b>1.0</b>
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Hyperplasia		2	2																							<b>2</b>	<b>2.0</b>
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Hyperplasia								2	2	2						1	2						2		<b>11</b>	<b>1.8</b>	
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	<b>45</b>		
Hyperplasia						2																				<b>1</b>	<b>2.0</b>
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	<b>50</b>		
Pars Distalis, Angiectasis					2	2																				<b>3</b>	<b>2.3</b>
Pars Distalis, Cyst	2				3		3										2						3		<b>13</b>	<b>2.5</b>	
Pars Distalis, Hyperplasia, Focal			2				2		2	2			2				2		2			2			<b>19</b>	<b>1.7</b>	

\* .. 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

TDMS No. 99024 - 07  
 Test Type: CHRONIC  
 Route: GAVAGE  
 Species/Strain: RATS/F 344

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Androstenedione  
 CAS Number: 63-05-8

Date Report Requested: 07/18/2008  
 Time Report Requested: 13:49:10  
 First Dose M/F: 02/03/03 / 02/03/03  
 Lab: SRI

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

Thyroid Gland	+																									50					
Ultimobranchial Cyst																										1	1 1.0				
C-cell, Hyperplasia	2																									3	2 2	2	2 2 2 2 1	1 1	25 1.7
Follicle, Cyst																															1 2.0

**GENERAL BODY SYSTEM**  
 NONE

**GENITAL SYSTEM**

Clitoral Gland	+																									50					
Cyst	3																									2	3	4 2.8			
Hyperplasia	2																										3	3 2.3			
Inflammation, Suppurative																											3	2	1 2.0		
Inflammation, Chronic	1 1																									1	1	1	2 1 1 2	1 1 1 1	24 1.3
Ovary	+																									50					
Angiectasis																															1 2.0
Cyst																															1 3.0
Infiltration Cellular, Histiocyte																															1 2.0
Bursa, Dilatation	3																														6 3.0
Follicle, Cyst																															1 2.0
Interstitial Cell, Cyst																															1 2.0
Uterus	+																									50					
Hemorrhage	3																														1 3.0
Hyperplasia, Cystic	2																										3		2 2 3		14 1.9

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Page 129



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DAY ON TEST	0																								* TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	7	6	7	7	7	7	7	5	7	7	7	7	7	6	7	7	7	7	5	7	6	7	7	7	
8	2	7	2	2	3	3	3	1	3	2	2	2	2	1	3	3	3	3	3	3	0	3	3	3	
4	9	4	9	9	3	3	3	0	3	9	9	9	9	0	3	3	3	3	4	2	5	2	2	2	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>50 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	7	7	7	7	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	

**INTEGUMENTARY SYSTEM**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst																									3	2.7
Hyperplasia	1	3	2							2	3							1	2	1	1	1	2	1	23	1.8
Inflammation, Suppurative			4																						1	4.0
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst Epithelial Inclusion																									1	3.0
Hyperkeratosis																									2	3.0

**MUSCULOSKELETAL SYSTEM**

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperostosis																									1	3.0

**NERVOUS SYSTEM**

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Compression			3																						5	2.4
Hemorrhage																			2						1	2.0
Peripheral Nerve																										1
Spinal Cord																										1

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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	0	0	
5	7	6	7	7	7	7	7	5	7	7	7	7	7	6	7	7	7	7	5	7	6	7	7	7	
8	2	7	2	2	3	3	3	1	3	2	2	2	2	1	3	3	3	3	3	3	0	3	3	3	
4	9	4	9	9	3	3	3	0	3	9	9	9	9	0	3	3	3	3	4	2	5	2	2	2	
<b>FISCHER 344 RATS FEMALE</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>50 MG/KG</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	
	7	7	7	7	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0	
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	

**RESPIRATORY SYSTEM**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infiltration Cellular, Histiocyte					1			1	1		2		1	1	1		2	1	1	1		1	1	1	27 1.1
Inflammation, Chronic																	2							1	1 2.0
Alveolar Epithelium, Hyperplasia						2													1				1		10 1.6
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Foreign Body							2																		3 1.3
Respiratory Epithelium, Hyperplasia																									1 2.0
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

**SPECIAL SENSES SYSTEM**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Atrophy																									1 3.0
Cataract																									1 3.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

**URINARY SYSTEM**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst																									1 3.0

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