F1_R8

C Number:	C20304		
Lock Date:	10/12/2006		
Cage Range:	ALL		
Date Range:	ALL		
Reasons For Removal:	25022 ACCK	25021 TSAC	25020 NATD
	25019 MSAC	25018 DACC	
Removal Date Range:	ALL		
Treatment Groups:	Include 001 0 UG/KG	Include 004 100 UG/KG	Include 005 220 UG/KG
	Include 006 460 UG/KG	Include 007 1000 UG/KG	Include 008 4600 UG/KG
	Include 009 4600 UG/KG STOP		
Study Gender:	Female		
TDMSE Version:	2.0.0		

DAY ON TEST	019	073	065	073	065	066	051	073	073	069	073	032	066	073	065	029	062	057	073	073	050	073	070	073	049	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	006	007	008	009	010	011	012	013	014	015	016	026	027	028	029	030	036	037	038	039	040	041	042	043	**females (cont...)**
0 UG/KG																										
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																										
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan						X																				
Artery, Inflammation, Chronic Active																										
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus			X														X	X		X						
Basophilic Focus, Multiple				X				X																		
Clear Cell Focus														X												
Clear Cell Focus, Multiple		X		X					X									X				X			X	
Degeneration, Cystic																		1								
Eosinophilic Focus													X		X										X	
Fatty Change, Focal																	1					1				

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

DAY ON TEST	019	073	065	073	065	066	051	073	073	069	073	032	066	073	065	029	062	057	073	073	050	073	070	073	049	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	006	007	008	009	010	011	012	013	014	015	016	026	027	028	029	030	036	037	038	039	040	041	042	043	**females (cont...)**
0 UG/KG																										
Fatty Change, Diffuse										1																
Hematopoietic Cell Proliferation			1		1	1		1						1	1			1			1				1	
Inflammation				1		1			1			1					1	1	1	1		1		1		
Mixed Cell Focus								X	X					X				X								
Mixed Cell Focus, Multiple		X		X							X								X	X		X		X		
Necrosis																										
Pigmentation																										
Bile Duct, Cyst																										
Bile Duct, Fibrosis																										
Bile Duct, Hyperplasia						1																1		1		
Capsule, Inflammation																										
Centrilobular, Degeneration																										
Mesentery	+																									
Artery, Inflammation, Chronic Active																										
Oral Mucosa	+																									
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration										2																
Acinus, Atrophy, Focal				1																						
Artery, Inflammation, Chronic Active																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation						3							2													
Ulcer						3							2													

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DAY ON TEST	019	733	658	735	651	669	516	734	733	692	733	320	662	733	652	291	624	575	733	734	503	735	701	735	495	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	006	007	008	009	010	011	012	013	014	015	016	026	027	028	029	030	036	037	038	039	040	041	042	043	**females (cont...)**
0 UG/KG																										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst		2																								
Tooth	+	+		+			+			+							+	+		+						
Peridontal Tissue, Inflammation		2		2			3										3	2		1						
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy				1					1						1			1	1							
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy														2												
Degeneration, Cystic			1				3				3			3			1		3							
Hematopoietic Cell Proliferation																		1								
Hyperplasia		2			2		3											1	3							
Hypertrophy		1	2	2	2			4	2		2		1	1	1		1		2	1		2	2	1		
Vacuolization Cytoplasmic							2	2	2									1	2							
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia		3			2	1													3	1						
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	019	073	065	073	065	066	051	073	073	069	073	032	066	073	065	029	062	057	073	073	050	073	070	073	049
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	006	007	008	009	010	011	012	013	014	015	016	026	027	028	029	030	036	037	038	039	040	041	042	043
0 UG/KG																									
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	M	+	+	+	M	+	+	+	M	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																	3								
Pars Distalis, Hyperplasia							1		2		2			2	3				3			1			
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+
Inflammation																									
C-cell, Hyperplasia		2		1							2			2						1					
Follicular Cell, Hypertrophy									1												1				

females (cont...)

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation		2	1	1	1		3	3	1	1	3	3		2		2	2	1	2	1	2	1	1		1
Duct, Cyst		2	2	2	2	2			1		2			3	2		2			2	2	2			3	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst						2					2														2
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation													1												
Metaplasia, Squamous		1		2	1		1								1	3							1		2

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SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	006	007	008	009	010	011	012	013	014	015	016	026	027	028	029	030	036	037	038	039	040	041	042	043
0 UG/KG																									**females (cont...)**
Thrombosis					1																				
Endometrium, Hyperplasia, Cystic		1	2	2	2	1	1	2	2	1	2	1			1					1			2		2
Vagina								+												+					
HEMATOPOIETIC SYSTEM																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy													3	2								2			
Hyperplasia			3		3	4	3		2		3	3			3	3	2	3	3		3				4
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+
Hyperplasia, Plasma Cell				2	1	1							2	2			2	2		2		2	2	3	2
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									
Hyperplasia, Plasma Cell																									
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation		1	3	2	2	3	2	2	2	3	3	2		2	1	2		2	1	2	3	1	1	1	2
Hemorrhage										3															
Necrosis										3															
Pigmentation		2					1	2	1	3	2	2	2	2	1		3	1	3	3		2	3	3	1
Lymphoid Follicle, Atrophy													2												
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+
Atrophy		3	3	2	2	3	3	2	3	4	3	2	3	4	2		3	3	2	2	3	3		2	2

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DAY ON TEST	019	073	065	073	065	066	051	073	073	069	073	032	066	073	065	029	062	057	073	073	050	073	070	073	049	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	006	007	008	009	010	011	012	013	014	015	016	026	027	028	029	030	036	037	038	039	040	041	042	043	**females (cont...)**
0 UG/KG																										
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																										
Hyperplasia																						2				
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gliosis							2																			
Hemorrhage	2																									
Hydrocephalus																							2			
Necrosis																						3				
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	
Inflammation		1						1											1			1				
Metaplasia, Squamous																										

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DAY ON TEST	019	073	065	073	065	066	051	073	073	069	073	032	066	073	065	029	062	057	073	073	050	073	070	073	049
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	006	007	008	009	010	011	012	013	014	015	016	026	027	028	029	030	036	037	038	039	040	041	042	043
0 UG/KG																									**females (cont...)**
Proteinosis								1																	
Alveolar Epithelium, Hyperplasia										1															
Alveolar Epithelium, Metaplasia, Bronchiolar								1												1					
Alveolus, Infiltration Cellular, Histiocyte		1	1	1	2	2	2	2	2	3	2	1	1		2		2	2	1	2		2	1	2	2
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																				2					
Inflammation							2																		
Olfactory Epithelium, Degeneration																						2			
Respiratory Epithelium, Degeneration, Focal																									
Respiratory Epithelium, Hyperplasia	1															1						2			1
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+
SPECIAL SENSES SYSTEM																									
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cornea, Inflammation																	3								
Retina, Atrophy																									
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell		1		1					1									1			1				
URINARY SYSTEM																									

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SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	006	007	008	009	010	011	012	013	014	015	016	026	027	028	029	030	036	037	038	039	040	041	042	043
0 UG/KG																									
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accumulation, Hyaline Droplet								2																	
Calculus Micro Observation Only								X					X				X								
Mineralization		1			1	1		1	1			1	1									1	1		
Nephropathy		2	1	2		3	1		2	1	1		1	2	1		1	2	1	2	1	2	2	2	1
Pigmentation		1															1								
Artery, Inflammation, Chronic Active																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

females (cont...)

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SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	004	004	004	004	004	004	005	005	005	005	005	005	005	005	005	005	006	006	006	006	006	007	007	007	007
0 UG/KG	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	6	7	8	9	0	6	7	8

females (cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan																					X				
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan							X																		
Artery, Inflammation, Chronic Active							3																		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus							X	X	X									X	X	X			X		
Basophilic Focus, Multiple																X									
Clear Cell Focus		X			X						X		X			X									
Clear Cell Focus, Multiple										X					X		X								
Degeneration, Cystic																									
Eosinophilic Focus																	X					X			
Fatty Change, Focal																									

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SPRAGUE-DAWLEY RATS FEMALE

0 UG/KG

females (cont...)

DAY ON TEST	0495	0735	0443	0378	0503	0617	0733	0735	0561	0516	0734	0735	0733	0440	0734	0561	0658	0503	0575	0735	0593	0733	0733	0733	0446
ANIMAL ID	0044	0045	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0066	0067	0068	0069	0070	0076	0077	0078
Fatty Change, Diffuse																									
Hematopoietic Cell Proliferation				1		1	1		1	1						1			1		1				1
Inflammation		1		1			1	1	1		1	1			1			1		1				1	
Mixed Cell Focus						X									X										
Mixed Cell Focus, Multiple											X	X					X			X		X	X	X	
Necrosis																					1				
Pigmentation																			1						
Bile Duct, Cyst															3					2					
Bile Duct, Fibrosis								2			1														
Bile Duct, Hyperplasia								1			1														
Capsule, Inflammation																			2						
Centrilobular, Degeneration																					2				
Mesentery							+																		
Artery, Inflammation, Chronic Active							3																		
Oral Mucosa																									
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Degeneration																									
Acinus, Atrophy, Focal							1						2					1							
Artery, Inflammation, Chronic Active							3																		
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																									
Ulcer																									

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SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	004	004	004	004	004	004	005	005	005	005	005	005	005	005	005	005	006	006	006	006	006	007	007	007	007	**females (cont...)**
0 UG/KG	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	6	7	8	9	0	6	7	8	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																										
Tooth				+																		+				
Peridontal Tissue, Inflammation																						2				
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy		1					1	1						1		1	1			1						
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Degeneration, Cystic													2				1					2				
Hematopoietic Cell Proliferation																										
Hyperplasia	1	2				3	2								2					2		2	3			
Hypertrophy	1	2	2		2	2	2	1	2	1	1	1	2		2		2	1		2	1	2	2	2		
Vacuolization Cytoplasmic				1				1					1		1		1									
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia								2	1				1			1						2				
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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

DAY ON TEST	0495	0735	0443	0378	0503	0617	0733	0735	0561	0516	0734	0735	0733	0440	0734	0561	0658	0503	0575	0735	0593	0733	0733	0733	0446	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0004	0045	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0066	0067	0068	0069	0070	0076	0077	0078	**females (cont...)**
0 UG/KG																										
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																										
Pars Distalis, Hyperplasia											2				2									2		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
C-cell, Hyperplasia		1			2												2					1	2			
Follicular Cell, Hypertrophy						2				1							1								3	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation	1	2		1		1		1	3	2		3	1	1		1	1	2	1	2	1	1	3		1	
Duct, Cyst		2						1						2					1	2	1	1	3	3	2	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																				2	3	3		3	3	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																			2			3			1	
Metaplasia, Squamous	2	1	3			3	2	1	4	2	1	1	3	1		1		1	4	1	4	2		1	3	

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DAY ON TEST	0495	0735	0443	0378	0503	0617	0733	0735	0561	0516	0734	0735	0733	0440	0734	0561	0658	0503	0575	0735	0593	0733	0733	0733	0446
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0004 4	0004 5	0004 6	0004 7	0004 8	0004 9	0005 0	0005 1	0005 2	0005 3	0005 4	0005 5	0005 6	0005 7	0005 8	0005 9	0006 0	0006 6	0006 7	0006 8	0006 9	0007 0	0007 6	0007 7	0007 8
0 UG/KG																									
Thrombosis																									
Endometrium, Hyperplasia, Cystic	2	2			1		2	2			2	1	1		1	1		2		2				2	
Vagina								+			+	+	+		+										
HEMATOPOIETIC SYSTEM																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy														3											
Hyperplasia	3		3	4		3	2		4	3						3	2	3	4		4	3		2	3
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Plasma Cell						1	3	2		2	1		3			2				3		3	2	1	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									3
Hyperplasia, Plasma Cell							2																		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation	2	1	2	3		2	3	1	2	3			1			2	2	2	3	1	4		1	2	3
Hemorrhage																									
Necrosis																									
Pigmentation	1	2	1	1	2	1	2	1		1	1		2	2	3	1	1			1		1	3		1
Lymphoid Follicle, Atrophy																					2				
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy		2	3	3	2	3	2		3	2		2		3	3		2		2	3	4	4		2	

females (cont...)

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2) Mild 4) Marked

DAY ON TEST	049	073	044	037	050	061	073	073	056	051	073	073	073	044	073	056	065	050	057	073	059	073	073	073	044	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	004	004	004	004	004	004	005	005	005	005	005	005	005	005	005	005	006	006	006	006	006	007	007	007	007	**females (cont...)**
0 UG/KG	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	6	7	8	9	0	6	7	8	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																								2		
Hyperplasia																	2						2			
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gliosis																										
Hemorrhage																	2									
Hydrocephalus																										
Necrosis					3																					
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																	1									
Metaplasia, Squamous												1														

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DAY ON TEST	0495	0735	0443	0378	0503	0617	0733	0735	0561	0516	0734	0735	0733	0440	0734	0561	0658	0503	0575	0735	0593	0733	0733	0733	0446
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0004	0045	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0066	0067	0068	0069	0070	0076	0077	0078
0 UG/KG																									**females (cont...)**
Proteinosis																									
Alveolar Epithelium, Hyperplasia							2					1								2					
Alveolar Epithelium, Metaplasia, Bronchiolar		2					1					1			1										
Alveolus, Infiltration Cellular, Histiocyte		2		1	1	2	2		2	2	2	2		2	3		2			2	1	1			
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																									
Inflammation																									
Olfactory Epithelium, Degeneration																									
Respiratory Epithelium, Degeneration, Focal																								2	
Respiratory Epithelium, Hyperplasia																		1							
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
SPECIAL SENSES SYSTEM																									
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cornea, Inflammation																									
Retina, Atrophy																								2	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell					1												1								
URINARY SYSTEM																									

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DAY ON TEST	0495	0735	0443	0378	0503	0617	0733	0735	0561	0516	0734	0735	0733	0440	0734	0561	0658	0503	0575	0735	0593	0733	0733	0733	0446
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0004	0045	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0066	0067	0068	0069	0070	0076	0077	0078
0 UG/KG																									**females (cont...)**
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Accumulation, Hyaline Droplet																									
Calculus Micro Observation Only																									
Mineralization		1		1	1	1	1			1		1			1	1		1	1	1	1		1		1
Nephropathy	1	2		2	1		3	1	1	1	1	1	3	1	2	1		1		2	1	1	3	1	
Pigmentation																									
Artery, Inflammation, Chronic Active							2																		
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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DAY ON TEST	0	0	
	5	7	
	1	0	
	2	1	
SPRAGUE-DAWLEY RATS FEMALE	0	0	
	0	0	
	0	0	
ANIMAL ID	7	8	
0 UG/KG	9	0	*** TOTALS**
ALIMENTARY SYSTEM			
Esophagus	+	+	**51**
Intestine Large, Cecum	+	+	**52**
Intestine Large, Colon	+	+	**52**
Parasite Metazoan			**1**
Intestine Large, Rectum	+	+	**52**
Parasite Metazoan			**2**
Artery, Inflammation, Chronic Active			**1 3.0**
Intestine Small, Duodenum	+	+	**52**
Intestine Small, Ileum	+	+	**52**
Intestine Small, Jejunum	+	+	**52**
Liver	+	+	**52**
Basophilic Focus			**11**
Basophilic Focus, Multiple		X	**4**
Clear Cell Focus			**6**
Clear Cell Focus, Multiple			**9**
Degeneration, Cystic			**1 1.0**
Eosinophilic Focus			**5**
Fatty Change, Focal			**2 1.0**

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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

DAY ON TEST	0	0	
	5	7	
	1	0	
	2	1	
SPRAGUE-DAWLEY RATS FEMALE			
ANIMAL ID	0	0	
	0	0	
	0	0	
	7	8	
0 UG/KG	9	0	*** TOTALS**
Fatty Change, Diffuse			**1 1.0**
Hematopoietic Cell Proliferation		1	**19 1.0**
Inflammation			**21 1.0**
Mixed Cell Focus			**6**
Mixed Cell Focus, Multiple		X	**15**
Necrosis			**1 1.0**
Pigmentation			**1 1.0**
Bile Duct, Cyst			**2 2.5**
Bile Duct, Fibrosis			**2 1.5**
Bile Duct, Hyperplasia			**5 1.0**
Capsule, Inflammation			**1 2.0**
Centrilobular, Degeneration			**1 2.0**
Mesentery			**2**
Artery, Inflammation, Chronic Active			**1 3.0**
Oral Mucosa			**1**
Pancreas	+	+	**52**
Degeneration			**1 2.0**
Acinus, Atrophy, Focal			**4 1.3**
Artery, Inflammation, Chronic Active			**1 3.0**
Salivary Glands	+	+	**51**
Stomach, Forestomach	+	+	**52**
Inflammation			**2 2.5**
Ulcer			**2 2.5**

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DAY ON TEST	0 5 1 2	0 7 0 1	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 0 7	0 0 0 8	
0 UG/KG	9	0	*** TOTALS**
Stomach, Glandular	+	+	**52**
Cyst			**1 2.0**
Tooth			**10**
Peridontal Tissue, Inflammation			**7 2.1**
CARDIOVASCULAR SYSTEM			
Blood Vessel	+	+	**52**
Heart	+	+	**52**
Cardiomyopathy		1	**13 1.0**
ENDOCRINE SYSTEM			
Adrenal Cortex	+	+	**52**
Atrophy			**1 2.0**
Degeneration, Cystic			**9 2.1**
Hematopoietic Cell Proliferation			**1 1.0**
Hyperplasia		2	**14 2.1**
Hypertrophy		2	**37 1.7**
Vacuolization Cytoplasmic			**10 1.4**
Adrenal Medulla	+	+	**52**
Hyperplasia		2	**11 1.7**
Islets, Pancreatic	+	+	**52**

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

DAY ON TEST	0	0	
	5	7	
	1	0	
	2	1	
SPRAGUE-DAWLEY RATS FEMALE			
ANIMAL ID	0	0	
	0	0	
	0	0	
	7	8	
0 UG/KG	9	0	*** TOTALS**
Parathyroid Gland	+	+	**47**
Pituitary Gland	+	+	**52**
Angiectasis			**1 3.0**
Pars Distalis, Hyperplasia			**10 2.0**
Thyroid Gland	+	+	**51**
Inflammation	1		**1 1.0**
C-cell, Hyperplasia			**10 1.6**
Follicular Cell, Hypertrophy			**6 1.5**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	**52**
Inflammation	1	2	**41 1.6**
Duct, Cyst	2	2	**26 2.0**
Ovary	+	+	**52**
Cyst			**8 2.5**
Uterus	+	+	**52**
Inflammation			**4 1.8**
Metaplasia, Squamous	3		**29 1.9**

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DAY ON TEST	0	0	
	5	7	
	1	0	
	2	1	
SPRAGUE-DAWLEY RATS FEMALE	0	0	
	0	0	
	0	0	
ANIMAL ID	7	8	
0 UG/KG	9	0	*** TOTALS**
Thrombosis			**1 1.0**
Endometrium, Hyperplasia, Cystic			**28 1.6**
Vagina			**7**
HEMATOPOIETIC SYSTEM			
Bone Marrow	+	+	**52**
Atrophy			**4 2.5**
Hyperplasia	2	2	**31 3.0**
Lymph Node, Mandibular	+	+	**51**
Hyperplasia, Plasma Cell	2		**24 2.0**
Lymph Node, Mesenteric	+	+	**52**
Atrophy			**1 3.0**
Hyperplasia, Plasma Cell			**1 2.0**
Spleen	+	+	**52**
Hematopoietic Cell Proliferation		3	**42 2.0**
Hemorrhage			**1 3.0**
Necrosis			**1 3.0**
Pigmentation	3	1	**39 1.8**
Lymphoid Follicle, Atrophy	2		**3 2.0**
Thymus	+	+	**51**
Atrophy	2	2	**41 2.6**

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DAY ON TEST	0	0	
	5	7	
	1	0	
	2	1	
SPRAGUE-DAWLEY RATS FEMALE	0	0	
	0	0	
	0	0	
ANIMAL ID	7	8	
0 UG/KG	9	0	*** TOTALS**
INTEGUMENTARY SYSTEM			
Mammary Gland	+	+	**52**
Cyst			**1 2.0**
Hyperplasia		2	**4 2.0**
Skin	+	+	**52**
MUSCULOSKELETAL SYSTEM			
Bone	+	+	**52**
NERVOUS SYSTEM			
Brain	+	+	**52**
Gliosis			**1 2.0**
Hemorrhage	2		**3 2.0**
Hydrocephalus			**1 2.0**
Necrosis			**2 3.0**
RESPIRATORY SYSTEM			
Lung	+	+	**51**
Inflammation			**5 1.0**
Metaplasia, Squamous			**1 1.0**

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

DAY ON TEST	0 5 1 2	0 7 0 1	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 0 7	0 0 0 8	
0 UG/KG	9	0	*** TOTALS**
Proteinosis			**1 1.0**
Alveolar Epithelium, Hyperplasia			**4 1.5**
Alveolar Epithelium, Metaplasia, Bronchiolar			**6 1.2**
Alveolus, Infiltration Cellular, Histiocyte			**36 1.8**
Nose	+	+	**52**
Cyst			**1 2.0**
Inflammation			**1 2.0**
Olfactory Epithelium, Degeneration			**1 2.0**
Respiratory Epithelium, Degeneration, Focal			**1 2.0**
Respiratory Epithelium, Hyperplasia			**5 1.2**
Trachea	+	+	**51**
SPECIAL SENSES SYSTEM			
Eye	+	+	**52**
Cornea, Inflammation			**1 3.0**
Retina, Atrophy			**1 2.0**
Harderian Gland	+	+	**52**
Infiltration Cellular, Mononuclear Cell			**7 1.0**
URINARY SYSTEM			

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BLANK .. Not examined microscopically
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1) Minimal 3) Moderate
2) Mild 4) Marked

DAY ON TEST	0 5 1 2	0 7 0 1	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 0 7	0 0 0 8	
0 UG/KG	9	0	*** TOTALS**
Kidney	+	+	**52**
Accumulation, Hyaline Droplet			**1 2.0**
Calculus Micro Observation Only			**3**
Mineralization	1		**25 1.0**
Nephropathy	1	1	**42 1.5**
Pigmentation			**2 1.0**
Artery, Inflammation, Chronic Active			**1 2.0**
Urinary Bladder	+	+	**52**

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2) Mild 4) Marked

DAY ON TEST	0028	0733	0637	0302	0608	0265	0674	0733	0734	0602	0341	0665	0706	0386	0571	0733	0733	0733	0495	0484	0734	0733	0620	0708	0602	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0002	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029	**females (cont...)**
100 UG/KG																										
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Muscularis, Inflammation																										
Intestine Large, Cecum	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																	2									
Parasite Metazoan																										
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis												3														
Basophilic Focus									X													X				
Basophilic Focus, Multiple																										
Cholangiofibrosis																				1				1		
Clear Cell Focus																										
Clear Cell Focus, Multiple									X													X				
Eosinophilic Focus							X	X										X						X		

* .. 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

SPRAGUE-DAWLEY RATS FEMALE

100 UG/KG

females (cont...)

DAY ON TEST	0028	0733	0637	0302	0608	0265	0674	0733	0734	0602	0341	0665	0706	0386	0571	0733	0733	0733	0495	0484	0734	0733	0620	0708	0602
ANIMAL ID	0302	0306	0307	0308	0309	0310	0311	0312	0313	0314	0315	0316	0317	0318	0319	0320	0321	0322	0323	0324	0325	0326	0327	0328	0329
Eosinophilic Focus, Multiple																	X								
Fatty Change, Focal																									
Fatty Change, Diffuse																									
Hematopoietic Cell Proliferation		1						1	1	1	1			1	1		1		1	1		1		1	1
Hepatodiaphragmatic Nodule																									
Inflammation					1		1	1	1	1	1	1	1	1	1	1		1				1		1	
Mixed Cell Focus													X				X								
Mixed Cell Focus, Multiple		X						X	X										X		X	X			
Necrosis																									
Pigmentation			2										1					1							
Bile Duct, Cyst			2					2					3												
Bile Duct, Fibrosis							2																		
Bile Duct, Hyperplasia												1				1		1							
Centrilobular, Degeneration			2																			1			
Hepatocyte, Hypertrophy								2			1	1	1			1	1					1			
Hepatocyte, Multinucleated																									
Oval Cell, Hyperplasia							1					1				2		1			1	1			
Mesentery																									
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active														2											
Acinus, Atrophy, Focal														2											
Acinus, Hyperplasia								2																	
Artery, Inflammation, Chronic Active													2												
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Squamous														3											

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

DAY ON TEST	028	733	637	302	608	265	674	733	734	602	341	665	706	386	571	733	733	733	495	484	734	733	620	708	602
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	002	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003
100 UG/KG		06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Inflammation														2											
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Erosion																									
Artery, Mineralization										1															
Tooth		+						+													+				
Peridontal Tissue, Inflammation		2						2													2				
CARDIOVASCULAR SYSTEM																									
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Aorta, Mineralization						1																			
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cardiomyopathy						1	1		1							1	1				2			1	
Artery, Mineralization						1																			
Coronary Artery, Thrombosis																									
Endocardium, Hyperplasia																									
Endocardium, Infiltration Cellular		1																							
Epicardium, Inflammation																									
Myocardium, Mineralization						1																			
ENDOCRINE SYSTEM																									
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Degeneration, Cystic					3				3							2					3			2	

females (cont...)

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2) Mild 4) Marked

DAY ON TEST	0028	0733	0637	0302	0608	0265	0674	0733	0734	0602	0341	0665	0706	0386	0571	0733	0733	0733	0495	0484	0734	0733	0620	0708	0602	
SPRAGUE-DAWLEY RATS FEMALE 100 UG/KG ANIMAL ID	0030 2	0030 6	0030 7	0030 8	0030 9	0031 0	0031 1	0031 2	0031 3	0031 4	0031 5	0031 6	0031 7	0031 8	0031 9	0032 0	0032 1	0032 2	0032 3	0032 4	0032 5	0032 6	0032 7	0032 8	0032 9	**females (cont...)**
Hyperplasia		2	2						1			2	2				2		2		3	2		2		
Hypertrophy		2			2		2	2	3			1	3		1	3	1	2		1	2	1	1	2	3	
Necrosis							2																			
Vacuolization Cytoplasmic		1	1						1				2				1									
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia							2		1			1			2		1				4				2	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis						1																				
Cyst																										
Pars Distalis, Hyperplasia								3	3					1	2											
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia			2		4			2					3			1	2	3	1		2				2	
Follicular Cell, Hypertrophy	2																1		1						2	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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SPRAGUE-DAWLEY RATS FEMALE

100 UG/KG

females (cont...)

DAY ON TEST	028	073	063	030	060	026	067	073	073	060	034	066	070	038	057	073	073	073	049	048	073	073	062	070	060
ANIMAL ID	002	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025	026	027	028	029
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation		3	1	1	2			2		1	2	1	2	1		2	1	3			3		1	2	3
Duct, Cyst		2	2	2	2	1	2			2	2		2	1	3	2	1	2			2		1	3	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst				2			2								3							2	2		
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation		2		3						3	2														1
Metaplasia, Squamous		2		2	1			2	2	4	3		1		2		1	1		1		1			
Endometrium, Hyperplasia, Cystic		2	1		2			1					2		3		1						2		2

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy												2													
Hyperplasia	3	3		4		3		2		3	4			4	3		3		3	4	2	2		2	4
Lymph Node			+																						
Mediastinal, Hemorrhage																									
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Plasma Cell		1			1		2	2	2	2	2	2	1		1	2	2	2			2	2	2	2	
Lymph Node, Mesenteric	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									

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

DAY ON TEST	028	733	637	302	608	265	674	733	734	602	341	665	706	386	571	733	733	733	495	484	734	733	620	708	602
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	003 02	003 06	003 07	003 08	003 09	003 10	003 11	003 12	003 13	003 14	003 15	003 16	003 17	003 18	003 19	003 20	003 21	003 22	003 23	003 24	003 25	003 26	003 27	003 28	003 29
100 UG/KG																									**females (cont...)**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation		2		2				2	2	3	3	2		3	3		2	1	3	3	2	2		1	2
Pigmentation		1			3	2	3	1	1			2	2		1			2		1	3		3	2	
Lymphoid Follicle, Atrophy					2	3																			
Red Pulp, Atrophy						3																			
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy		3			2	3		2	3	4		2	2	2	2	3	3		2	2	2	4		2	2
Cyst																									
Hemorrhage																									
Inflammation																									

INTEGUMENTARY SYSTEM

Mammary Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																									
Hyperplasia																2			2						
Inflammation, Chronic Active																									
Skin	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperkeratosis																									
Hyperplasia, Squamous																									
Inflammation																									

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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1-4 .. Lesion qualified as:
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DAY ON TEST	028	733	637	302	608	265	674	733	734	602	341	665	706	386	571	733	733	733	495	484	734	733	620	708	602	
SPRAGUE-DAWLEY RATS FEMALE 100 UG/KG ANIMAL ID	002	003	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025	026	027	028	029	**females (cont...)**
Skeletal Muscle																										
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hydrocephalus							1					2														
Vacuolization Cytoplasmic																								3		
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation						3											1							1		
Alveolar Epithelium, Hyperplasia																										
Alveolar Epithelium, Metaplasia, Bronchiolar								1																		
Alveolus, Infiltration Cellular, Histiocyte		1	2		1			2		2	1	1	2					2	1		1	2	1	1	2	
Serosa, Inflammation																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation						3						3			2										1	
Olfactory Epithelium, Degeneration						3																				
Respiratory Epithelium, Hyperplasia		3									1					1						1				
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										

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2) Mild 4) Marked

DAY ON TEST	0028	0733	0637	0302	0608	0265	0674	0733	0734	0602	0341	0665	0706	0386	0571	0733	0733	0733	0495	0484	0734	0733	0620	0708	0602
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0002	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	0026	0027	0028	0029
100 UG/KG																									
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cornea, Inflammation						1																			
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																					1				
Infiltration Cellular, Mononuclear Cell		1					1						1				1				1	1			
URINARY SYSTEM																									
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst													3												
Mineralization		1				1	1		1		1		1	1	1	1				1				1	
Nephropathy		2	1		2	1	3	1	1	1		2	2				1	1			4	1	1	2	
Pigmentation																									
Pelvis, Dilatation																									
Pelvis, Inflammation																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																									
Inflammation																									

females (cont...)

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DAY ON TEST	0728	0658	0575	0658	0672	0734	0734	0734	0053	0723	0733	0734	0357	0735	0692	0734	0298	0733	0579	0482	0672	0733	0734	0735	0503	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0030	0036	0037	0038	0039	0040	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0058	0066	0067	0068	0069	0070	0071	0072	0073	**females (cont...)**
100 UG/KG																										
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Muscularis, Inflammation																		1	2							
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Parasite Metazoan				X														X								
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																										
Basophilic Focus		X						X								X										
Basophilic Focus, Multiple			X																			X				
Cholangiofibrosis																										
Clear Cell Focus		X									X				X											
Clear Cell Focus, Multiple			X			X	X	X										X								
Eosinophilic Focus																X										

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SPRAGUE-DAWLEY RATS FEMALE

100 UG/KG

females (cont...)

DAY ON TEST	0728	0658	0575	0658	0672	0734	0734	0734	0053	0723	0733	0734	0357	0735	0692	0734	0298	0733	0579	0482	0672	0733	0734	0735	0503
ANIMAL ID	0030	0036	0037	0038	0039	0040	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0058	0066	0067	0068	0069	0070	0071	0072	0073
Eosinophilic Focus, Multiple		X												X											
Fatty Change, Focal		1																							
Fatty Change, Diffuse										2															
Hematopoietic Cell Proliferation			1	1			1			1		1		1								1			
Hepatodiaphragmatic Nodule								X																	
Inflammation	1		1	1		1		1		1				1		1		1		1	1	1	1	1	
Mixed Cell Focus					X							X													X
Mixed Cell Focus, Multiple				X		X		X			X					X		X			X			X	
Necrosis										3										3					
Pigmentation	1											1													
Bile Duct, Cyst																									
Bile Duct, Fibrosis																									
Bile Duct, Hyperplasia						2								1		1									
Centrilobular, Degeneration																									
Hepatocyte, Hypertrophy	1														1			2							2
Hepatocyte, Multinucleated												1													
Oval Cell, Hyperplasia				1		1						1		1		1		1							
Mesentery										+															
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active																									
Acinus, Atrophy, Focal												1													
Acinus, Hyperplasia																								2	
Artery, Inflammation, Chronic Active								2																	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Squamous						3	2																		

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

DAY ON TEST	072	065	057	065	067	073	073	073	005	072	073	073	035	073	069	073	029	073	057	048	067	073	073	073	050	
SPRAGUE-DAWLEY RATS FEMALE 100 UG/KG ANIMAL ID	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	003	**females (cont...)**
	30	36	37	38	39	40	46	47	48	49	50	51	52	53	54	55	58	66	67	68	69	70	71	72	73	
Inflammation																										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion										2																
Artery, Mineralization																										
Tooth							+																	+		
Peridontal Tissue, Inflammation							2																	3		
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Aorta, Mineralization																										
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	2					1	1	1		1			1	1		2		1			1		1			
Artery, Mineralization																										
Coronary Artery, Thrombosis							2																			
Endocardium, Hyperplasia																						2				
Endocardium, Infiltration Cellular																										
Epicardium, Inflammation																			3							
Myocardium, Mineralization																										
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic								2					1		1											

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SPRAGUE-DAWLEY RATS FEMALE

100 UG/KG

females (cont...)

DAY ON TEST	0728	0658	0575	0658	0672	0734	0734	0734	0053	0723	0733	0734	0357	0735	0692	0734	0298	0733	0579	0482	0672	0733	0734	0735	0503
ANIMAL ID	0030	0036	0037	0038	0039	0040	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0058	0066	0067	0068	0069	0070	0071	0072	0073
Hyperplasia			3				2								2		3	3		2				2	
Hypertrophy	1	2	2		1	2	1	2		2	1	2	2	2		2		2			1	3	2	2	1
Necrosis																									
Vacuolization Cytoplasmic			1			1	2			3					2			1	1						
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	2					2						2											1		1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia										3															
Parathyroid Gland	+	M	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	M	M	+	+	+	+	+
Hyperplasia																3									
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																									
Cyst															2										
Pars Distalis, Hyperplasia				2							2														
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+
C-cell, Hyperplasia								1		2								1				2			
Follicular Cell, Hypertrophy											1												3		3

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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1-4 .. Lesion qualified as:
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SPRAGUE-DAWLEY RATS FEMALE

100 UG/KG

females (cont...)

DAY ON TEST	0728	0658	0575	0658	0672	0734	0734	0734	0053	0723	0733	0734	0357	0735	0692	0734	0298	0733	0579	0482	0672	0733	0734	0735	0503
ANIMAL ID	0030	0036	0037	0038	0039	0040	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0058	0066	0067	0068	0069	0070	0071	0072	0073
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation			2	1	2		2	1	2			2	2	2	1	2	1	3		2	2	1	2	3	3
Duct, Cyst	2		2		2		2	2	1		2	3	2	3		3	3	2	1	2	2	3	1	2	3
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst						2	2								2										
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation			1																						
Metaplasia, Squamous		2	1	2	2					2			3					1		1	2	2		1	1
Endometrium, Hyperplasia, Cystic	2		3	3	2		1				1	1	4	3		1		1	1		1	1	1	1	1

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									
Hyperplasia			3	2	2				2	3		2	4			2		2		3			2		3
Lymph Node																									
Mediastinal, Hemorrhage																									
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+
Hyperplasia, Plasma Cell	2		2	3	2	2	2	2		2	1		2	1	2	1						2	2	2	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy															2										

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DAY ON TEST	0728	0658	0575	0658	0672	0734	0734	0734	0053	0723	0733	0734	0357	0735	0692	0734	0298	0733	0579	0482	0672	0733	0734	0735	0503
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0030	0036	0037	0038	0039	0040	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0058	0066	0067	0068	0069	0070	0071	0072	0073
100 UG/KG																									**females (cont...)**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation		1	2	2	2	2	1	1		3	2	2		1	2	1		2		2	2	3	1	1	2
Pigmentation		3	1	1	3	1	2	1			2	1	3	1	1		2	1	1	1		2	1	1	
Lymphoid Follicle, Atrophy	3																		2						
Red Pulp, Atrophy	3																								
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+
Atrophy	4	2	4	2	2	3	4			4		3	2		3	2			3	2	2	3	3	3	
Cyst								3																	3
Hemorrhage																			3						
Inflammation																			2						

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst	3						3																		
Hyperplasia						1										1									
Inflammation, Chronic Active																									
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperkeratosis							2																		
Hyperplasia, Squamous							2	2																	
Inflammation							2	2		4															

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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DAY ON TEST	072	065	057	065	067	073	073	073	005	072	073	073	035	073	069	073	029	073	057	048	067	073	073	073	050	
SPRAGUE-DAWLEY RATS FEMALE 100 UG/KG ANIMAL ID	030	036	037	038	039	040	046	047	048	049	050	051	052	053	054	055	058	066	067	068	069	070	071	072	073	**females (cont...)**
Skeletal Muscle																	+									
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hydrocephalus																										
Vacuolization Cytoplasmic																										
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Alveolar Epithelium, Hyperplasia			1																					1		
Alveolar Epithelium, Metaplasia, Bronchiolar				2	2					2					1	1									1	
Alveolus, Infiltration Cellular, Histiocyte		2		2	2	1	1	2		3	2	2		2	2	2		2		2	2		2	2	2	
Serosa, Inflammation																			3							
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																		1								
Olfactory Epithelium, Degeneration																										
Respiratory Epithelium, Hyperplasia																1										
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										

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SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0030	0036	0037	0038	0039	0040	0046	0047	0048	0049	0050	0051	0052	0053	0054	0055	0058	0066	0067	0068	0069	0070	0071	0072	0073	**females (cont...)**
100 UG/KG																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cornea, Inflammation																										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Infiltration Cellular, Mononuclear Cell						1	1	1																	1	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst							2																			
Mineralization		3	1	1	1	1	1			1	1		1	1		1		1	1		1		1	1		
Nephropathy	2	1	2	1		2	3	2		2	1	1	1	2	2	1	2	2	1	1	1	2	2	1		
Pigmentation			1												1	1										
Pelvis, Dilatation																	2									
Pelvis, Inflammation															1											
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia							2																			
Inflammation																		2								

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DAY ON TEST	0	0	
	5	7	
	7	3	
	1	3	
SPRAGUE-DAWLEY RATS FEMALE	0	0	
	0	0	
	3	3	
ANIMAL ID	7	7	
100 UG/KG	4	5	*** TOTALS**
ALIMENTARY SYSTEM			
Esophagus	+	+	**52**
Muscularis, Inflammation		2	**3 1.7**
Intestine Large, Cecum	+	+	**51**
Intestine Large, Colon	+	+	**52**
Intestine Large, Rectum	+	+	**52**
Inflammation			**1 2.0**
Parasite Metazoan			**2**
Intestine Small, Duodenum	+	+	**52**
Intestine Small, Ileum	+	+	**51**
Intestine Small, Jejunum	+	+	**52**
Liver	+	+	**51**
Angiectasis			**1 3.0**
Basophilic Focus			**5**
Basophilic Focus, Multiple			**2**
Cholangiofibrosis			**2 1.0**
Clear Cell Focus			**3**
Clear Cell Focus, Multiple			**7**
Eosinophilic Focus			**5**

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DAY ON TEST	0 5 7 1	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 3 7	0 0 3 7	
100 UG/KG	4	5	*** TOTALS**
Eosinophilic Focus, Multiple			**3**
Fatty Change, Focal			**1 1.0**
Fatty Change, Diffuse	1		**2 1.5**
Hematopoietic Cell Proliferation			**20 1.0**
Hepatodiaphragmatic Nodule			**1**
Inflammation	1	1	**30 1.0**
Mixed Cell Focus			**5**
Mixed Cell Focus, Multiple			**14**
Necrosis			**2 3.0**
Pigmentation			**5 1.2**
Bile Duct, Cyst			**3 2.3**
Bile Duct, Fibrosis			**1 2.0**
Bile Duct, Hyperplasia			**6 1.2**
Centrilobular, Degeneration			**2 1.5**
Hepatocyte, Hypertrophy	2		**12 1.3**
Hepatocyte, Multinucleated			**1 1.0**
Oval Cell, Hyperplasia			**12 1.1**
Mesentery			**1**
Pancreas	+	+	**52**
Inflammation, Chronic Active			**1 2.0**
Acinus, Atrophy, Focal			**2 1.5**
Acinus, Hyperplasia			**2 2.0**
Artery, Inflammation, Chronic Active			**2 2.0**
Salivary Glands	+	+	**51**
Stomach, Forestomach	+	+	**52**
Hyperplasia, Squamous			**3 2.7**

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DAY ON TEST	0 5 7 1	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 3 7	0 0 3 7	
100 UG/KG	4	5	*** TOTALS**
Inflammation			**1 2.0**
Stomach, Glandular	+	+	**52**
Erosion			**1 2.0**
Artery, Mineralization			**1 1.0**
Tooth			**5**
Peridontal Tissue, Inflammation			**5 2.2**
CARDIOVASCULAR SYSTEM			
Blood Vessel	+	+	**52**
Aorta, Mineralization			**1 1.0**
Heart	+	+	**52**
Cardiomyopathy		1	**19 1.2**
Artery, Mineralization			**1 1.0**
Coronary Artery, Thrombosis			**1 2.0**
Endocardium, Hyperplasia			**1 2.0**
Endocardium, Infiltration Cellular			**1 1.0**
Epicardium, Inflammation			**1 3.0**
Myocardium, Mineralization			**1 1.0**
ENDOCRINE SYSTEM			
Adrenal Cortex	+	+	**52**
Degeneration, Cystic			**8 2.1**

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DAY ON TEST	0 5 7 1	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 3 7 4	0 0 3 7 5	*** TOTALS**
100 UG/KG			
Hyperplasia		2	**18 2.2**
Hypertrophy		2	**37 1.8**
Necrosis			**1 2.0**
Vacuolization Cytoplasmic			**12 1.4**
Adrenal Medulla	+	+	**52**
Hyperplasia			**12 1.8**
Islets, Pancreatic	+	+	**52**
Hyperplasia			**1 3.0**
Parathyroid Gland	+	M	**46**
Hyperplasia			**1 3.0**
Pituitary Gland	+	+	**52**
Angiectasis			**1 1.0**
Cyst			**1 2.0**
Pars Distalis, Hyperplasia			**6 2.2**
Thyroid Gland	+	+	**51**
C-cell, Hyperplasia			**14 2.0**
Follicular Cell, Hypertrophy			**7 1.9**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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DAY ON TEST	0	0	
	5	7	
	7	3	
	1	3	
SPRAGUE-DAWLEY RATS FEMALE	0	0	
	0	0	
	3	3	
ANIMAL ID	7	7	
100 UG/KG	4	5	*** TOTALS**
Clitoral Gland	+	+	**52**
Inflammation	1	2	**38 1.8**
Duct, Cyst	2	2	**39 2.0**
Ovary	+	+	**52**
Cyst	1	2	**10 2.0**
Uterus	+	+	**52**
Inflammation			**6 2.0**
Metaplasia, Squamous	2		**26 1.7**
Endometrium, Hyperplasia, Cystic		1	**27 1.7**

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	**52**
Atrophy			**1 2.0**
Hyperplasia	3	2	**30 2.8**
Lymph Node	+		**2**
Mediastinal, Hemorrhage	2		**1 2.0**
Lymph Node, Mandibular	+	+	**51**
Hyperplasia, Plasma Cell		2	**34 1.8**
Lymph Node, Mesenteric	+	+	**51**
Atrophy			**1 2.0**

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DAY ON TEST	0	0	
	5	7	
	7	3	
	1	3	
SPRAGUE-DAWLEY RATS FEMALE			
ANIMAL ID	0	0	
	0	0	
	3	3	
	7	7	
100 UG/KG	4	5	*** TOTALS**
Spleen	+	+	**52**
Hematopoietic Cell Proliferation	3	2	**39 2.0**
Pigmentation	1	3	**35 1.7**
Lymphoid Follicle, Atrophy			**4 2.5**
Red Pulp, Atrophy			**2 3.0**
Thymus	+	+	**51**
Atrophy	4	2	**38 2.7**
Cyst			**2 3.0**
Hemorrhage			**1 3.0**
Inflammation			**1 2.0**
INTEGUMENTARY SYSTEM			
Mammary Gland	+	+	**51**
Cyst			**2 3.0**
Hyperplasia		2	**5 1.6**
Inflammation, Chronic Active	3		**1 3.0**
Skin	+	+	**51**
Hyperkeratosis			**1 2.0**
Hyperplasia, Squamous			**2 2.0**
Inflammation			**3 2.7**
MUSCULOSKELETAL SYSTEM			
Bone	+	+	**52**

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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
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2) Mild 4) Marked

DAY ON TEST	0 5 7 1	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 3 7	0 0 3 7	
100 UG/KG	4	5	*** TOTALS**
Skeletal Muscle			**1**
NERVOUS SYSTEM			
Brain	+	+	**52**
Hydrocephalus			**2 1.5**
Vacuolization Cytoplasmic			**1 3.0**
RESPIRATORY SYSTEM			
Lung	+	+	**52**
Inflammation			**3 1.7**
Alveolar Epithelium, Hyperplasia			**2 1.0**
Alveolar Epithelium, Metaplasia, Bronchiolar			**7 1.4**
Alveolus, Infiltration Cellular, Histiocyte	1	2	**35 1.7**
Serosa, Inflammation			**1 3.0**
Nose	+	+	**52**
Inflammation			**5 2.0**
Olfactory Epithelium, Degeneration			**1 3.0**
Respiratory Epithelium, Hyperplasia			**5 1.4**
Trachea	+	+	**52**
SPECIAL SENSES SYSTEM			

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\+ .. Tissue examined microscopically
x .. Lesion present
I .. Insufficient tissue

M .. Missing tissue
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BLANK .. Not examined microscopically

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

DAY ON TEST	0 5 7 1	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 3 7	0 0 3 7	
100 UG/KG	4	5	*** TOTALS**
Eye	+	+	**52**
Cornea, Inflammation			**1 1.0**
Harderian Gland	+	+	**52**
Hyperplasia			**1 1.0**
Infiltration Cellular, Mononuclear Cell			**10 1.0**
URINARY SYSTEM			
Kidney	+	+	**52**
Cyst			**2 2.5**
Mineralization	1		**28 1.1**
Nephropathy	1	2	**40 1.6**
Pigmentation			**3 1.0**
Pelvis, Dilatation			**1 2.0**
Pelvis, Inflammation			**1 1.0**
Urinary Bladder	+	+	**52**
Hyperplasia			**1 2.0**
Inflammation			**1 2.0**

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DAY ON TEST	069	075	073	039	073	070	073	018	073	016	019	073	068	073	041	065	073	073	065	043	054	058	046	045	073	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	004	004	004	004	004	004	004	004	004	004	004	004	004	004	004	004	004	004	004	004	004	004	004	004	004	**females (cont...)**
220 UG/KG	06	07	08	09	10	11	12	13	14	15	18	31	32	33	34	35	36	37	38	39	40	41	42	43	44	
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Ulcer																										
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																					X				X	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																										
Basophilic Focus		X												X					X						X	
Basophilic Focus, Multiple																										
Cholangiofibrosis																							2			
Clear Cell Focus	X							X						X				X								
Clear Cell Focus, Multiple																										
Degeneration, Cystic																										

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SPRAGUE-DAWLEY RATS FEMALE

220 UG/KG

females (cont...)

DAY ON TEST	0694	0575	0733	0393	0733	0707	0735	0183	0733	0163	0197	0733	0687	0735	0412	0658	0734	0733	0652	0433	0545	0589	0469	0453	0735
ANIMAL ID	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0018	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044
Eosinophilic Focus														X	X										
Eosinophilic Focus, Multiple	X	X																							X
Fatty Change, Focal	1					1												1							
Fatty Change, Diffuse																									
Hematopoietic Cell Proliferation	1					1	1	1	1		1		1			1			1	1			1		
Hepatodiaphragmatic Nodule																									
Inflammation	1	1	1	2	1	1	1		1			1	1	1			1	1	1	2			1	1	1
Mixed Cell Focus		X						X					X			X					X				
Mixed Cell Focus, Multiple	X		X		X		X		X			X					X	X							
Necrosis																				1					
Pigmentation			1															2	1			1			1
Toxic Hepatopathy	1																								
Bile Duct, Cyst	3						3																		
Bile Duct, Hyperplasia									1			2						2							
Centrilobular, Degeneration							1															2			
Hepatocyte, Hypertrophy	1	1		1		2	3	1									2			1	1				
Hepatocyte, Multinucleated						1																			
Oval Cell, Hyperplasia												2		1				2	1						
Mesentery						+																			
Oral Mucosa																									
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active	1				1																				
Acinus, Atrophy, Focal	2				1																				
Artery, Inflammation, Chronic Active																			2						
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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SPRAGUE-DAWLEY RATS FEMALE 220 UG/KG ANIMAL ID	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0018	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	**females (cont...)**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Glands, Cyst													1													
Tooth						+																				
Peridontal Tissue, Inflammation						3																				
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1				1		1																		1	
Artery, Mineralization																										
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic						1			3								2	2								
Hyperplasia						2			2				2			3	3	2			2					
Hypertrophy	1	1	3			3	2		1			2	2	1		2		2	1		1			2	3	
Inflammation																								2		
Necrosis											3													3		
Vacuolization Cytoplasmic		2										1	1			2								2		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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SPRAGUE-DAWLEY RATS FEMALE 220 UG/KG ANIMAL ID	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0018	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044
Hyperplasia		1		1		1												1			1				
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Hyperplasia		1			3	3			2			2									2		2	1	
Thyroid Gland	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C-cell, Hyperplasia			2									1							3						
Follicular Cell, Hypertrophy		2	1	2	1		1	1			2				2	1					2				

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Squamous Inflammation	3	2	3		2	1	2		1		1	1	2				1	1	1	1	1			2	2
Duct, Cyst	2	2			2	2		2	2				2			2	2	2		1	2	1	2	2	2
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst												2	3						3	2					
Bilateral, Cyst																									

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SPRAGUE-DAWLEY RATS FEMALE 220 UG/KG ANIMAL ID	006	007	008	009	010	011	012	013	014	015	018	031	032	033	034	035	036	037	038	039	040	041	042	043	044
females (cont...)																									
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst														3											
Inflammation																				3				2	
Metaplasia, Squamous			1		1	4	2		2			2						1	2	2	1		4	4	3
Endometrium, Hyperplasia, Cystic		2			2				1			2				1	1	1			1	1			1
HEMATOPOIETIC SYSTEM																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																									
Hyperplasia		4	2	4		4	3	4			3		3		3	4			3	4	2	4	3	3	
Myelofibrosis																1									
Lymph Node																						+			
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Lymphoid		2																							
Hyperplasia, Plasma Cell	1			1	2	3	2	1				1		1	2	3	1	3	1	2			2		2
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation	2	1	2	2	2	4	1	3	1		2	1	3	1	2	3	1		3	3	2		2	2	
Pigmentation		1	2				1		1					2	1	1		2	1		1		1		
Lymphoid Follicle, Atrophy																									
Red Pulp, Atrophy																									
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+

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DAY ON TEST	069	057	073	039	073	070	073	018	073	016	019	073	068	073	041	065	073	073	065	043	054	058	046	045	073	
SPRAGUE-DAWLEY RATS FEMALE 220 UG/KG ANIMAL ID	004 06	004 07	004 08	004 09	004 10	004 11	004 12	004 13	004 14	004 15	004 18	004 31	004 32	004 33	004 34	004 35	004 36	004 37	004 38	004 39	004 40	004 41	004 42	004 43	004 44	**females (cont...)**
Atrophy	3	4	4	2	3	4	2	2	2			2	3	2	2	3	4	2	4	2	3			3		
Cyst																								2		
Hemorrhage																										
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																		1								
Inflammation, Granulomatous						3															3					
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion																										
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																										
Hydrocephalus																										
Spinal Cord											+															

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DAY ON TEST	069	057	073	039	073	070	073	018	073	016	019	073	068	073	041	065	073	073	065	043	054	058	046	045	073
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	006	007	008	009	010	011	012	013	014	015	018	031	032	033	034	035	036	037	038	039	040	041	042	043	044
220 UG/KG																									**females (cont...)**
RESPIRATORY SYSTEM																									
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation	1											1													
Pigmentation																									
Alveolar Epithelium, Metaplasia, Bronchiolar						1								1		1			2						2
Alveolus, Infiltration Cellular, Histiocyte	2		2	1	1	2	2				2	1		2	2	2	1		2	1	1			1	2
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation							2			2												1	2		
Respiratory Epithelium, Hyperplasia							2	1		2	1												1		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
SPECIAL SENSES SYSTEM																									
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cornea, Inflammation																									
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																								2	
Infiltration Cellular, Mononuclear Cell																			1						
URINARY SYSTEM																									

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DAY ON TEST	0694	0575	0733	0393	0733	0707	0735	0183	0733	0163	0197	0733	0687	0735	0412	0658	0734	0733	0652	0433	0545	0589	0469	0453	0735	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0018	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	**females (cont...)**
220 UG/KG																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accumulation, Hyaline Droplet																										
Mineralization	1	1	1			1		2	1				1	1		1	1	1	1		1	1			1	
Necrosis											3															
Nephropathy	1	1	2	2	2		2		1			2	1	1	1	1		2	2	1	1	1	1	1	1	
Pigmentation																										
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	0504	0229	0734	0446	0735	0734	0617	0733	0733	0733	0735	0713	0735	0645	0734	0735	0735	0701	0734	0733	0595	0652	0617	0734	0694	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0045	0049	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077	0078	**females (cont...)**
220 UG/KG																										
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																					2					
Ulcer																					2					
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan						X																				
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																	2									
Basophilic Focus								X				X										X	X			
Basophilic Focus, Multiple													X			X								X		
Cholangiofibrosis			1																							
Clear Cell Focus																										
Clear Cell Focus, Multiple						X				X							X									
Degeneration, Cystic													1													

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DAY ON TEST	0504	0229	0734	0446	0735	0734	0617	0733	0733	0733	0735	0713	0735	0645	0734	0735	0735	0701	0734	0733	0595	0652	0617	0734	0694
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0044 5	0044 9	0045 1	0045 2	0045 3	0045 4	0045 5	0045 6	0045 7	0045 8	0045 9	0046 0	0046 6	0046 7	0046 8	0046 9	0047 0	0047 1	0047 2	0047 3	0047 4	0047 5	0047 6	0047 7	0047 8
220 UG/KG																									
Eosinophilic Focus													X			X									
Eosinophilic Focus, Multiple			X									X													
Fatty Change, Focal													1			1		1							
Fatty Change, Diffuse																							1		
Hematopoietic Cell Proliferation	1					1			1	1			1			2		1		1		1		1	
Hepatodiaphragmatic Nodule																									X
Inflammation					1	1	1	1	1	1		1	1		1		1		1	1	1	1		1	
Mixed Cell Focus																		X							
Mixed Cell Focus, Multiple			X		X		X	X		X			X		X	X	X			X		X		X	X
Necrosis																									
Pigmentation								1	1						2				1				2		1
Toxic Hepatopathy			1										1												
Bile Duct, Cyst										2			3							3					
Bile Duct, Hyperplasia											1				1					1				1	
Centrilobular, Degeneration																					1	1			
Hepatocyte, Hypertrophy			2				2						1									2	2		2
Hepatocyte, Multinucleated													1		1										
Oval Cell, Hyperplasia			1						1					1				1						1	
Mesentery																		+			+				
Oral Mucosa												+													
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active																									
Acinus, Atrophy, Focal					1																				
Artery, Inflammation, Chronic Active																									
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

females (cont...)

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DAY ON TEST	0504	0229	0734	0446	0735	0734	0617	0733	0733	0733	0735	0713	0735	0645	0734	0735	0735	0701	0734	0733	0595	0652	0617	0734	0694	
SPRAGUE-DAWLEY RATS FEMALE 220 UG/KG ANIMAL ID	0045	0049	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077	0078	**females (cont...)**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Glands, Cyst																										
Tooth					+				+															+		
Peridontal Tissue, Inflammation					2				3															2		
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy					2	1	1		1			1	1				1		1					1		
Artery, Mineralization																					1					
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic			3		2									3										1		
Hyperplasia												3	2		2			3					2	2		
Hypertrophy	2	1	2		2	1	1	3	2	2	2	1	2	1	2	2	1		2	2		2	3	2	2	
Inflammation																										
Necrosis																										
Vacuolization Cytoplasmic					1	1						2	1		2						2				1	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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SPRAGUE-DAWLEY RATS FEMALE 220 UG/KG ANIMAL ID	0045	0049	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077	0078
Hyperplasia						2			1						1		2	2			1		1		1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	M	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	M
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Hyperplasia												2					2	2		3					2
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C-cell, Hyperplasia			2		2						2				1						2	2		1	
Follicular Cell, Hypertrophy	1						2																		3

females (cont...)

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Squamous						3																			
Inflammation	1				2	3	1	2		1	1	1	2	1	1	3	2	1	2	3	1		3	3	2
Duct, Cyst					2	3			2	2		2				2	2	2	1		1		3	3	2
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst						2					3	2			2		2	3						2	
Bilateral, Cyst								4																	

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DAY ON TEST	050 4	029	073 4	044 6	073 5	073 4	061 7	073 3	073 3	073 3	073 5	071 3	073 5	064 5	073 4	073 5	073 5	070 1	073 4	073 3	059 5	065 2	061 7	073 4	069 4
SPRAGUE-DAWLEY RATS FEMALE 220 UG/KG ANIMAL ID	004 5	004 9	004 5 1	004 5 2	004 5 3	004 5 4	004 5 5	004 5 6	004 5 7	004 5 8	004 5 9	004 6 0	004 6 6	004 6 7	004 6 8	004 6 9	004 7 0	004 7 1	004 7 2	004 7 3	004 7 4	004 7 5	004 7 6	004 7 7	004 7 8
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																									
Inflammation					3		2												2		2				
Metaplasia, Squamous	2		1	1	3	1	4		2					2	1			1	2		4	1			
Endometrium, Hyperplasia, Cystic	1				2				2	2		1		1	2			2		1		2			

females (cont...)

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																							2		
Hyperplasia	3		2	4	3				2	3				2		3		4		2	3	3			3
Myelofibrosis																									
Lymph Node																									
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Lymphoid																									
Hyperplasia, Plasma Cell			1		1	1		2	1	3	2	2		2	1	1	2	1	1	1		2	1	2	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation	1			3		2	1	1	3	1	2		2			3		3	1	1	2	2		1	1
Pigmentation	1	2		1	1	1	1	3	2		2		1	3	3	1	3		1		2	1	3		1
Lymphoid Follicle, Atrophy												2									1				
Red Pulp, Atrophy		2										1													
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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SPRAGUE-DAWLEY RATS FEMALE 220 UG/KG ANIMAL ID	0044 5	0044 9	0045 1	0045 2	0045 3	0045 4	0045 5	0045 6	0045 7	0045 8	0045 9	0046 0	0046 6	0046 7	0046 8	0046 9	0047 0	0047 1	0047 2	0047 3	0047 4	0047 5	0047 6	0047 7	0047 8	**females (cont...)**
Atrophy	2		2	2	2		2	3	2	2	2	2		2	2	2	2	3	4	2	4	2	3	2	2	
Cyst																										
Hemorrhage		3																								
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia											2		1											1		
Inflammation, Granulomatous																										
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion																			X							
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																									1	
Hydrocephalus														1												
Spinal Cord																										

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SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0045	0049	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077	0078	**females (cont...)**
220 UG/KG																										
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation	1	1																3								
Pigmentation		1																								
Alveolar Epithelium, Metaplasia, Bronchiolar	1				1		1			2					1			1	1	1					2	
Alveolus, Infiltration Cellular, Histiocyte	2		2	1	2	1	2	1	1	2		1		2	2		1	2	2	1			1	2	3	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation										2																
Respiratory Epithelium, Hyperplasia		2								1																
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cornea, Inflammation												3														
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia											2															
Infiltration Cellular, Mononuclear Cell																						1				
URINARY SYSTEM																										

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SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID **220 UG/KG**	0045	0049	0051	0052	0053	0054	0055	0056	0057	0058	0059	0060	0066	0067	0068	0069	0070	0071	0072	0073	0074	0075	0076	0077	0078	**females (cont...)**
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accumulation, Hyaline Droplet																									1	
Mineralization	1		1		1			1	1			1		1			1	1	1	1	2		1	1		
Necrosis																										
Nephropathy	1	1	1	1	2	1	1		1	1	1	1	1	2	2	1	1	2	1	2	1	2	1	1	1	
Pigmentation								1								2									1	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

DAY ON TEST	0	0	
	7	7	
	3	3	
	5	3	
SPRAGUE-DAWLEY RATS FEMALE			
ANIMAL ID	0	0	
	0	0	
	4	4	
	7	8	
220 UG/KG	9	0	*** TOTALS**
ALIMENTARY SYSTEM			
Esophagus	+	+	**52**
Intestine Large, Cecum	+	+	**51**
Inflammation			**1 2.0**
Ulcer			**1 2.0**
Intestine Large, Colon	+	+	**52**
Intestine Large, Rectum	+	+	**52**
Parasite Metazoan			**3**
Intestine Small, Duodenum	+	+	**52**
Intestine Small, Ileum	+	+	**50**
Intestine Small, Jejunum	+	+	**50**
Liver	+	+	**52**
Angiectasis			**1 2.0**
Basophilic Focus			**8**
Basophilic Focus, Multiple			**3**
Cholangiofibrosis			**2 1.5**
Clear Cell Focus			**4**
Clear Cell Focus, Multiple			**3**
Degeneration, Cystic			**1 1.0**

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DAY ON TEST	0	0	
	7	7	
	3	3	
	5	3	
SPRAGUE-DAWLEY RATS FEMALE			
ANIMAL ID	0	0	
	0	0	
	4	4	
	7	8	
220 UG/KG	9	0	*** TOTALS**
Eosinophilic Focus			**4**
Eosinophilic Focus, Multiple			**5**
Fatty Change, Focal			**6 1.0**
Fatty Change, Diffuse			**1 1.0**
Hematopoietic Cell Proliferation			**21 1.0**
Hepatodiaphragmatic Nodule	X		**2**
Inflammation	1	1	**35 1.1**
Mixed Cell Focus		X	**7**
Mixed Cell Focus, Multiple	X		**22**
Necrosis			**1 1.0**
Pigmentation		1	**12 1.3**
Toxic Hepatopathy			**3 1.0**
Bile Duct, Cyst			**5 2.8**
Bile Duct, Hyperplasia			**7 1.3**
Centrilobular, Degeneration			**4 1.3**
Hepatocyte, Hypertrophy			**15 1.6**
Hepatocyte, Multinucleated			**3 1.0**
Oval Cell, Hyperplasia			**9 1.2**
Mesentery			**3**
Oral Mucosa			**1**
Pancreas	+	+	**52**
Inflammation, Chronic Active			**2 1.0**
Acinus, Atrophy, Focal			**3 1.3**
Artery, Inflammation, Chronic Active			**1 2.0**
Salivary Glands	+	+	**52**

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DAY ON TEST	0 7 3 5	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 4 7	0 0 4 8	
220 UG/KG	9	0	*** TOTALS**
Stomach, Forestomach	+	+	**52**
Stomach, Glandular	+	+	**52**
Glands, Cyst			**1 1.0**
Tooth	+		**5**
Peridontal Tissue, Inflammation	3		**5 2.6**
CARDIOVASCULAR SYSTEM			
Blood Vessel	+	+	**52**
Heart	+	+	**52**
Cardiomyopathy		1	**14 1.1**
Artery, Mineralization			**1 1.0**
ENDOCRINE SYSTEM			
Adrenal Cortex	+	+	**52**
Degeneration, Cystic		2	**9 2.1**
Hyperplasia			**13 2.3**
Hypertrophy	3	1	**39 1.8**
Inflammation			**1 2.0**
Necrosis			**2 3.0**
Vacuolization Cytoplasmic	2		**13 1.5**
Adrenal Medulla	+	+	**52**

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DAY ON TEST	0 7 3 5	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 4 7 9	0 0 4 8 0	
220 UG/KG			*** TOTALS**
Hyperplasia		3	**14 1.4**
Islets, Pancreatic	+	+	**52**
Parathyroid Gland	+	+	**47**
Pituitary Gland	+	+	**52**
Pars Distalis, Hyperplasia			**13 2.1**
Thyroid Gland	+	+	**51**
C-cell, Hyperplasia			**10 1.8**
Follicular Cell, Hypertrophy			**13 1.6**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	**51**
Hyperplasia, Squamous			**1 3.0**
Inflammation	2	2	**39 1.7**
Duct, Cyst	1	2	**31 1.9**
Ovary	+	+	**52**
Cyst	2	2	**13 2.3**
Bilateral, Cyst			**1 4.0**

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DAY ON TEST	0 7 3 5	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 4 7	0 0 4 8	
220 UG/KG	9	0	*** TOTALS**
Uterus	+	+	**52**
Cyst			**1 3.0**
Inflammation			**6 2.3**
Metaplasia, Squamous	1		**27 2.0**
Endometrium, Hyperplasia, Cystic	3	1	**22 1.5**
HEMATOPOIETIC SYSTEM			
Bone Marrow	+	+	**52**
Atrophy			**1 2.0**
Hyperplasia		2	**30 3.1**
Myelofibrosis			**1 1.0**
Lymph Node			**1**
Lymph Node, Mandibular	+	+	**52**
Hyperplasia, Lymphoid			**1 2.0**
Hyperplasia, Plasma Cell	1	2	**36 1.6**
Lymph Node, Mesenteric	+	+	**52**
Spleen	+	+	**52**
Hematopoietic Cell Proliferation	2		**39 1.9**
Pigmentation	2		**31 1.6**
Lymphoid Follicle, Atrophy			**2 1.5**
Red Pulp, Atrophy			**2 1.5**
Thymus	+	+	**51**

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DAY ON TEST	0 7 3 5	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 4 7 9	0 0 4 8 0	
220 UG/KG			*** TOTALS**
Atrophy	4	2	**44 2.6**
Cyst			**1 2.0**
Hemorrhage			**1 3.0**
INTEGUMENTARY SYSTEM			
Mammary Gland	+	+	**52**
Hyperplasia			**4 1.3**
Inflammation, Granulomatous			**2 3.0**
Skin	+	+	**52**
Cyst Epithelial Inclusion			**1**
MUSCULOSKELETAL SYSTEM			
Bone	+	+	**52**
NERVOUS SYSTEM			
Brain	+	+	**52**
Angiectasis			**1 1.0**
Hydrocephalus			**1 1.0**
Spinal Cord			**1**

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DAY ON TEST	0 7 3 5	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 4 7	0 0 4 8	
220 UG/KG	9	0	*** TOTALS**
RESPIRATORY SYSTEM			
Lung	+	+	**52**
Inflammation			**5 1.4**
Pigmentation			**1 1.0**
Alveolar Epithelium, Metaplasia, Bronchiolar			**14 1.3**
Alveolus, Infiltration Cellular, Histiocyte		1	**37 1.6**
Nose	+	+	**52**
Inflammation			**5 1.8**
Respiratory Epithelium, Hyperplasia			**7 1.4**
Trachea	+	+	**52**
SPECIAL SENSES SYSTEM			
Eye	+	+	**52**
Cornea, Inflammation			**1 3.0**
Harderian Gland	+	+	**52**
Hyperplasia			**2 2.0**
Infiltration Cellular, Mononuclear Cell		2	**3 1.3**
URINARY SYSTEM			

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2) Mild 4) Marked

DAY ON TEST	0	0	
	7	7	
	3	3	
	5	3	
SPRAGUE-DAWLEY RATS FEMALE	0	0	
	0	0	
	4	4	
ANIMAL ID	7	8	
220 UG/KG	9	0	*** TOTALS**
Kidney	+	+	**52**
Accumulation, Hyaline Droplet			**1 1.0**
Mineralization	1		**30 1.1**
Necrosis			**1 3.0**
Nephropathy	1	2	**46 1.3**
Pigmentation			**3 1.3**
Urinary Bladder	+	+	**52**

* .. 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	07	07	06	07	07	07	07	07	07	07	07	04	07	04	07	02	05	07	07	05	07	07	06	07	07	
	27	34	58	35	35	35	35	34	35	33	35	84	31	57	35	38	75	29	34	93	33	35	07	33	33	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	005 06	005 07	005 08	005 09	005 10	005 11	005 12	005 13	005 14	005 15	005 16	005 17	005 18	005 19	005 20	005 22	005 26	005 27	005 28	005 29	005 30	005 31	005 32	005 33	005 34	**females (cont...)**
460 UG/KG																										
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ulcer																2										
Muscularis, Inflammation					3																					
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Artery, Inflammation, Chronic Active						3																				
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Artery, Inflammation, Chronic Active						3																				
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan			X								X															
Artery, Inflammation, Chronic Active				2		3																				
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis									2	3																
Basophilic Focus				X					X																	
Basophilic Focus, Multiple																					X					

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
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x .. Lesion present
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M .. Missing tissue
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BLANK .. Not examined microscopically

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

SPRAGUE-DAWLEY RATS FEMALE

460 UG/KG

females (cont...)

DAY ON TEST	0727	0734	0658	0735	0735	0735	0735	0734	0735	0733	0735	0484	0731	0457	0735	0238	0575	0729	0734	0593	0733	0735	0607	0733	0733
ANIMAL ID	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0022	0026	0027	0028	0029	0030	0031	0032	0033	0034
Cholangiofibrosis					3			1																	
Clear Cell Focus	X																		X		X				
Clear Cell Focus, Multiple						X				X		X			X										
Eosinophilic Focus	X																		X			X			
Eosinophilic Focus, Multiple			X	X									X				X	X						X	
Fatty Change, Focal											1						1								
Fatty Change, Diffuse			1										1					1		1					
Hematopoietic Cell Proliferation	1	1		1	1	1	1	1	1	1		1	1	1	1		1				1	1		1	1
Hepatodiaphragmatic Nodule	X																								
Inflammation	2	1	1	1	1	1	1	1	1	1	1		2	1	1				1	1	1	1		1	1
Mixed Cell Focus							X										X	X			X				
Mixed Cell Focus, Multiple	X	X	X		X	X		X		X	X								X	X		X		X	X
Necrosis													3												
Pigmentation	2	2	1	2	1	2	1	1	1	2	1		1	1	1			1	1	1	2	2		2	1
Toxic Hepatopathy			1		1			1			1		1												
Bile Duct, Cyst								3							3										
Bile Duct, Fibrosis					1																				
Bile Duct, Hyperplasia		1			1			1	1									2							
Centrilobular, Degeneration																									
Hepatocyte, Hypertrophy			2		1						2		2		1										
Hepatocyte, Multinucleated	2	1		1		1	1		1		1			2				1			1	1		1	1
Oval Cell, Hyperplasia	2	2	2	1	1	1	1		1	1	1		2		1			1	1			1		1	
Mesentery				+		+																			
Hemorrhage																									
Artery, Inflammation, Chronic Active				3		3																			
Oral Mucosa																				+					
Gingival, Hyperplasia, Squamous																				3					

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2) Mild 4) Marked

DAY ON TEST	0727	0734	0658	0735	0735	0735	0735	0734	0735	0733	0735	0484	0731	0457	0735	0238	0575	0729	0734	0593	0733	0735	0607	0733	0733	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0050 6	0050 7	0050 8	0050 9	0051 0	0051 1	0051 2	0051 3	0051 4	0051 5	0051 6	0051 7	0051 8	0051 9	0052 0	0052 2	0052 6	0052 7	0052 8	0052 9	0053 0	0053 1	0053 2	0053 3	0053 4	**females (cont...)**
460 UG/KG																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Acinus, Atrophy, Focal																										
Artery, Inflammation, Chronic Active				3		3	2											3		2	3					
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion													1													
Tooth	+	+																		+					+	
Peridontal Tissue, Inflammation	2	2																		3					2	
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy					1	1			1		3							2	1					1	1	
Artery, Mineralization																										
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	
Angiectasis																										

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SPRAGUE-DAWLEY RATS FEMALE

460 UG/KG

females (cont...)

DAY ON TEST	07 27	07 34	06 58	07 35	07 35	07 35	07 35	07 34	07 35	07 33	07 35	04 84	07 31	04 57	07 35	02 38	05 75	07 29	07 34	05 93	07 33	07 35	06 07	07 33	07 33
ANIMAL ID	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	022	026	027	028	029	030	031	032	033	034
Atrophy																			2						
Degeneration, Cystic	2	2									2								4	2		4		3	
Hyperplasia				2			3				3	2					2				3			3	3
Hypertrophy	2	2	2	2	2	2	2	2	2	1	1		2		2			2	2	1	2	2		1	2
Vacuolization Cytoplasmic							2	2		1		1						2			1				
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia		2		1		1				1	3						1				2				1
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Hyperplasia			2		2	2			2	2			2		1									2	2
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+
C-cell, Hyperplasia									2																
Follicular Cell, Hypertrophy	1	1	1	3							1		2		1							1		2	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation		1	1	1		1		1	1		1	1	1	1	1	1	1	1	2	3	2	1		3	

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SPRAGUE-DAWLEY RATS FEMALE

460 UG/KG

females (cont...)

DAY ON TEST	0727	0734	0658	0735	0735	0735	0735	0734	0735	0733	0735	0484	0731	0457	0735	0238	0575	0729	0734	0593	0733	0735	0607	0733	0733
ANIMAL ID	0056	0057	0058	0059	0510	0511	0512	0513	0514	0515	0516	0517	0518	0519	0520	0522	0526	0527	0528	0529	0530	0531	0532	0533	0534
Duct, Cyst		3	2			2	2	2	3		2	2	3	2	3		2	2	3	2		2	2	3	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst	2			3		3					1							2	2			3			
Fibrosis																									
Inflammation																					4				
Pigmentation																									
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenomyosis																									
Cyst															3										
Inflammation							2	1							2						3				
Metaplasia, Squamous	1		1		1			3	2		2	4		3	2	1	2	1	1		3	2	1		2
Thrombosis				3																					
Artery, Inflammation, Chronic Active				3																					
Endometrium, Hyperplasia, Cystic		2					3		3	2	1				3	1	2	2				2		2	
Vagina			+																						

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	3	2	2	3	3	2	3	2				3	3			4	3			2	2	3		3	
Lymph Node																									
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+
Hyperplasia, Lymphoid																2									

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DAY ON TEST	0727	0734	0658	0735	0735	0735	0735	0734	0735	0733	0735	0484	0731	0457	0735	0238	0575	0729	0734	0593	0733	0735	0607	0733	0733	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0050 6	0050 7	0050 8	0050 9	0051 0	0051 1	0051 2	0051 3	0051 4	0051 5	0051 6	0051 7	0051 8	0051 9	0052 0	0052 2	0052 6	0052 7	0052 8	0052 9	0053 0	0053 1	0053 2	0053 3	0053 4	**females (cont...)**
460 UG/KG																										
Hyperplasia, Plasma Cell	1	1		1	1		2	2		2	1		3		2				2	2	3	2		1	2	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation	3	1	1	3	2	1	2	1	2	1		2	2		1	1	2		1	1	2			3	2	
Necrosis																										
Pigmentation		2			1	1		1	1	1	1		1	2	1	1	1	3		2	2	1	2			
Capsule, Hemorrhage																										
Lymphoid Follicle, Atrophy														2									2			
Red Pulp, Atrophy														2												
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	
Atrophy	3	3	2		3	3	3	3	2		3	2	4	3			2	2	4	3	2	4		2	2	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst				4																						
Hyperplasia						2																				
Inflammation, Granulomatous				3																						
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion																										
MUSCULOSKELETAL SYSTEM																										

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DAY ON TEST	07 27	07 34	06 58	07 35	07 35	07 35	07 35	07 34	07 35	07 33	07 35	04 84	07 31	04 57	07 35	02 38	05 75	07 29	07 34	05 93	07 33	07 35	06 07	07 33	07 33	
SPRAGUE-DAWLEY RATS FEMALE 460 UG/KG ANIMAL ID	005 06	005 07	005 08	005 09	005 10	005 11	005 12	005 13	005 14	005 15	005 16	005 17	005 18	005 19	005 20	005 22	005 26	005 27	005 28	005 29	005 30	005 31	005 32	005 33	005 34	**females (cont...)**
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gliosis													3													
Hemorrhage																										
Meninges, Inflammation																				2						
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																										
Inflammation																	1									
Metaplasia, Squamous																										
Alveolar Epithelium, Metaplasia, Bronchiolar	2		1					1	1		1		2											1		
Alveolus, Infiltration Cellular, Histiocyte	2	1	2		1	1		2	2	2	2		2		1		2		1	1	1		2	2	1	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation			1																	1						
Respiratory Epithelium, Hyperplasia			1	1		2																	2			
Respiratory Epithelium, Necrosis																										
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										

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DAY ON TEST	0727	0734	0658	0735	0735	0735	0735	0734	0735	0733	0735	0484	0731	0457	0735	0238	0575	0729	0734	0593	0733	0735	0607	0733	0733	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID **460 UG/KG**	0056	0057	0058	0059	0051	0051	0051	0051	0051	0051	0051	0051	0051	0051	0052	0052	0052	0052	0052	0052	0053	0053	0053	0053	0053	**females (cont...)**
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cornea, Inflammation																				3						
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Mononuclear Cell		1										1			1					1				1		
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Calculus Micro Observation Only													X								X					
Dilatation																										
Mineralization		1	1	1	1				1	1		1		1		1			1							
Nephropathy		1	1	3	2	3	2	2	2		1	2	1	1			1	2	1	2	2	2	1	1	2	
Pigmentation				1		2															1				1	
Pelvis, Dilatation																										
Renal Tubule, Hyperplasia																						2				
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	0571	0412	0733	0677	0593	0655	0582	0643	0734	0582	0730	0735	0735	0734	0735	0735	0300	0733	0733	0735	0733	0733	0733	0602	0735
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0053 5	0053 6	0053 7	0053 8	0053 9	0054 0	0054 1	0054 2	0054 3	0054 4	0054 5	0055 1	0055 2	0055 3	0055 4	0055 5	0056 3	0056 6	0056 7	0056 8	0056 9	0057 0	0057 6	0057 7	0057 8
460 UG/KG																									

females (cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ulcer																									
Muscularis, Inflammation																									
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																									
Artery, Inflammation, Chronic Active																									
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Artery, Inflammation, Chronic Active																									
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan																									
Artery, Inflammation, Chronic Active																									
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																									
Basophilic Focus									X																
Basophilic Focus, Multiple												X													

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\+ .. Tissue examined microscopically
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SPRAGUE-DAWLEY RATS FEMALE

460 UG/KG

females (cont...)

DAY ON TEST	0571	0412	0733	0677	0593	0655	0582	0643	0734	0582	0730	0735	0735	0734	0735	0735	0300	0733	0733	0735	0733	0733	0733	0602	0735
ANIMAL ID	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0051	0052	0053	0054	0055	0063	0066	0067	0068	0069	0070	0076	0077	0078
Cholangiofibrosis						1																			
Clear Cell Focus		X																							X
Clear Cell Focus, Multiple												X						X	X	X					
Eosinophilic Focus																				X					
Eosinophilic Focus, Multiple	X		X		X						X												X		
Fatty Change, Focal									1			1													
Fatty Change, Diffuse			2			3				3											1		2		
Hematopoietic Cell Proliferation	1	1								1		1					1					1	2	1	1
Hepatodiaphragmatic Nodule																									
Inflammation	1		1	1					1	2	1			1				1	1	1	1	1		1	1
Mixed Cell Focus		X																						X	
Mixed Cell Focus, Multiple			X	X	X	X			X			X	X	X	X	X		X	X	X	X	X			X
Necrosis										2															
Pigmentation	1		2	2	1	2	1		1		2	1	2		2	1	1	2	1		1	1	1		
Toxic Hepatopathy	1		1			1				1	1		1							1			1		
Bile Duct, Cyst													2	3	1										
Bile Duct, Fibrosis																			1						1
Bile Duct, Hyperplasia										1									3		1				
Centrilobular, Degeneration	1											1					1								
Hepatocyte, Hypertrophy	2	2	1	1		2				2	2		1			1	2			1		1	2		
Hepatocyte, Multinucleated	1		2		1	1	1				2		1												
Oval Cell, Hyperplasia	1		1			1				1	2		1		1			1	1		1	1			
Mesentery							+																		
Hemorrhage							3																		
Artery, Inflammation, Chronic Active																									
Oral Mucosa																									
Gingival, Hyperplasia, Squamous																									

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
\+ .. Tissue examined microscopically
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M .. Missing tissue
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BLANK .. Not examined microscopically

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

DAY ON TEST	0571	0412	0733	0677	0593	0655	0582	0643	0734	0582	0730	0735	0735	0734	0735	0735	0300	0733	0733	0735	0733	0733	0733	0602	0735	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID **460 UG/KG**	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0051	0052	0053	0054	0055	0063	0066	0067	0068	0069	0070	0076	0077	0078	**females (cont...)**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active															1					1						
Acinus, Atrophy, Focal					1										2					1	1					
Artery, Inflammation, Chronic Active			1																							
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion																										
Tooth					+																					
Peridontal Tissue, Inflammation					1																					
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy			1			1			1	1											1	1		1	1	
Artery, Mineralization							1																			
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																							3			

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DAY ON TEST	057	041	073	067	059	065	058	064	073	058	073	073	073	073	073	073	030	073	073	073	073	073	073	060	073
SPRAGUE-DAWLEY RATS FEMALE 460 UG/KG ANIMAL ID	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005	005
	35	36	37	38	39	40	41	42	43	44	45	51	52	53	54	55	63	66	67	68	69	70	76	77	78
Atrophy												2													
Degeneration, Cystic			3								3		1	1											2
Hyperplasia			2		2			2	2					2					2			3		2	
Hypertrophy	1		2	2	1	1		1	1	2	2	2	4	2	1	2		2	2	3	2	1	1	1	2
Vacuolization Cytoplasmic				2				1	2		1	3										1			
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia			3			1			2		2	3						2				3			
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Hyperplasia											2							2	1						3
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C-cell, Hyperplasia	3					2		3										2					2		
Follicular Cell, Hypertrophy	1									2			1			2						1	1	1	

females (cont...)

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation	2		2		1	1	1	1	3	2		3	3		1	1	1	1		2	1		2	1	2

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SPRAGUE-DAWLEY RATS FEMALE

460 UG/KG

females (cont...)

DAY ON TEST	0571	0412	0733	0677	0593	0655	0582	0643	0734	0582	0730	0735	0735	0734	0735	0735	0300	0733	0733	0735	0733	0733	0733	0602	0735
ANIMAL ID	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0051	0052	0053	0054	0055	0063	0066	0067	0068	0069	0070	0076	0077	0078
Duct, Cyst			2		2		2	3	2		2	2	2		1	3		2		2	3		2	2	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst					3	1												2			2	1			3
Fibrosis																									
Inflammation											3														
Pigmentation																									
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenomyosis			2																						
Cyst																									
Inflammation						2		2			3														
Metaplasia, Squamous	2		1	1	1	3		2	2			1	1	2	1	1		3			2			1	
Thrombosis			2																						
Artery, Inflammation, Chronic Active																									
Endometrium, Hyperplasia, Cystic			2		1			2	2	1		2		1							1	3	1		4
Vagina																									

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	3		2	3	2		4	3		3	4		3			2	2				2	2	3		2
Lymph Node							+																		
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Lymphoid																									

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DAY ON TEST	0571	0412	0733	0677	0593	0655	0582	0643	0734	0582	0730	0735	0735	0734	0735	0735	0300	0733	0733	0735	0733	0733	0733	0602	0735	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0053 5	0053 6	0053 7	0053 8	0053 9	0054 0	0054 1	0054 2	0054 3	0054 4	0054 5	0055 1	0055 2	0055 3	0055 4	0055 5	0056 3	0056 6	0056 7	0056 8	0056 9	0057 0	0057 6	0057 7	0057 8	**females (cont...)**
460 UG/KG																										
Hyperplasia, Plasma Cell		2	2		1				1	2		1	2	1	1	1		1		2	1			2	2	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation	2	2		1	2					2	3	2	1	2	1	1	2	1		2	1	3	3	1	2	
Necrosis								2																		
Pigmentation		1	2	3	1	3			1	2		1	2	2	3	1	1	2	1	2	1					
Capsule, Hemorrhage							3																			
Lymphoid Follicle, Atrophy																										
Red Pulp, Atrophy																										
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Atrophy	2	3	3	3	4	3		3	2		4	3	2	3	3	3		3	2	3	2	2	3	3	2	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst			2																							
Hyperplasia										2									1	1						
Inflammation, Granulomatous																										
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion																								X		
MUSCULOSKELETAL SYSTEM																										

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DAY ON TEST	0571	0412	0733	0677	0593	0655	0582	0643	0734	0582	0730	0735	0735	0734	0735	0735	0300	0733	0733	0735	0733	0733	0733	0602	0735	
SPRAGUE-DAWLEY RATS FEMALE 460 UG/KG ANIMAL ID	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0051	0052	0053	0054	0055	0063	0066	0067	0068	0069	0070	0076	0077	0078	**females (cont...)**
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gliosis																										
Hemorrhage								2																		
Meninges, Inflammation																										
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage								2																		
Inflammation				1										1												
Metaplasia, Squamous															1											
Alveolar Epithelium, Metaplasia, Bronchiolar				2	1	1			2			1			2	2		1					2		1	
Alveolus, Infiltration Cellular, Histiocyte		2	1	3	1	2	1		2			2	1	2	2	2	1	2	1		1		2	2	2	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation							3																			
Respiratory Epithelium, Hyperplasia	1													1						1						
Respiratory Epithelium, Necrosis							2																			
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										

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DAY ON TEST	0571	0412	0733	0677	0593	0655	0582	0643	0734	0582	0730	0735	0735	0734	0735	0735	0300	0733	0733	0735	0733	0733	0733	0602	0735
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0051	0052	0053	0054	0055	0063	0066	0067	0068	0069	0070	0076	0077	0078
460 UG/KG																									
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cornea, Inflammation																									
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell					1												1	1	1					1	
URINARY SYSTEM																									
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Calculus Micro Observation Only																									
Dilatation											3														
Mineralization					1		2	1						1	1		1	1	1						
Nephropathy	1		2	2	1	2	2		1	2	2	2	1	2	1	1	1		1	1	1		2	1	1
Pigmentation																									
Pelvis, Dilatation																									
Renal Tubule, Hyperplasia																									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

females (cont...)

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DAY ON TEST	0	0	
	7	6	
	3	2	
	4	7	
SPRAGUE-DAWLEY RATS FEMALE	0	0	
	0	0	
	5	5	
ANIMAL ID	7	8	
460 UG/KG	9	0	*** TOTALS**

ALIMENTARY SYSTEM

Esophagus	+	+	**52**	
Ulcer			**1**	**2.0**
Muscularis, Inflammation			**1**	**3.0**
Intestine Large, Cecum	+	+	**52**	
Inflammation		3	**1**	**3.0**
Artery, Inflammation, Chronic Active			**1**	**3.0**
Intestine Large, Colon	+	+	**52**	
Artery, Inflammation, Chronic Active			**1**	**3.0**
Intestine Large, Rectum	+	+	**52**	
Parasite Metazoan			**2**	
Artery, Inflammation, Chronic Active			**2**	**2.5**
Intestine Small, Duodenum	+	+	**52**	
Intestine Small, Ileum	+	+	**52**	
Intestine Small, Jejunum	+	+	**52**	
Liver	+	+	**52**	
Angiectasis			**2**	**2.5**
Basophilic Focus	X		**4**	
Basophilic Focus, Multiple			**2**	

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DAY ON TEST	0	0	
	7	6	
	3	2	
	4	7	
SPRAGUE-DAWLEY RATS FEMALE	0	0	
	0	0	
	5	5	
ANIMAL ID	7	8	
460 UG/KG	9	0	*** TOTALS**
Cholangiofibrosis			**3 1.7**
Clear Cell Focus			**5**
Clear Cell Focus, Multiple	X		**9**
Eosinophilic Focus			**4**
Eosinophilic Focus, Multiple			**11**
Fatty Change, Focal			**4 1.0**
Fatty Change, Diffuse			**9 1.7**
Hematopoietic Cell Proliferation		1	**28 1.0**
Hepatodiaphragmatic Nodule			**1**
Inflammation	1	2	**36 1.1**
Mixed Cell Focus			**6**
Mixed Cell Focus, Multiple	X		**30**
Necrosis			**2 2.5**
Pigmentation	1	2	**41 1.4**
Toxic Hepatopathy		1	**14 1.0**
Bile Duct, Cyst		2	**6 2.3**
Bile Duct, Fibrosis			**3 1.0**
Bile Duct, Hyperplasia			**8 1.4**
Centrilobular, Degeneration			**3 1.0**
Hepatocyte, Hypertrophy	1	2	**20 1.6**
Hepatocyte, Multinucleated		1	**21 1.2**
Oval Cell, Hyperplasia	1	1	**29 1.2**
Mesentery			**3**
Hemorrhage			**1 3.0**
Artery, Inflammation, Chronic Active			**2 3.0**
Oral Mucosa			**1**
Gingival, Hyperplasia, Squamous			**1 3.0**

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2) Mild 4) Marked

DAY ON TEST	0 7 3 4	0 6 2 7	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 5 7 9	0 0 5 8 0	
460 UG/KG			*** TOTALS**
Pancreas	+	+	**52**
Inflammation, Chronic Active			**2 1.0**
Acinus, Atrophy, Focal			**4 1.3**
Artery, Inflammation, Chronic Active			**7 2.4**
Salivary Glands	+	+	**51**
Stomach, Forestomach	+	+	**52**
Stomach, Glandular	+	+	**52**
Erosion			**1 1.0**
Tooth			**5**
Peridontal Tissue, Inflammation			**5 2.0**
CARDIOVASCULAR SYSTEM			
Blood Vessel	+	+	**52**
Heart	+	+	**52**
Cardiomyopathy			**16 1.2**
Artery, Mineralization			**1 1.0**
ENDOCRINE SYSTEM			
Adrenal Cortex	+	+	**51**
Angiectasis			**1 3.0**

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BLANK .. Not examined microscopically
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1) Minimal 3) Moderate
2) Mild 4) Marked

DAY ON TEST	0 7 3 4	0 6 2 7	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 5 7 9	0 0 5 8 0	
460 UG/KG			*** TOTALS**
Atrophy			**2 2.0**
Degeneration, Cystic			**12 2.4**
Hyperplasia			**16 2.4**
Hypertrophy	1		**43 1.7**
Vacuolization Cytoplasmic			**12 1.6**
Adrenal Medulla	+	+	**52**
Hyperplasia		1	**16 1.8**
Islets, Pancreatic	+	+	**52**
Parathyroid Gland	+	+	**50**
Pituitary Gland	+	+	**52**
Pars Distalis, Hyperplasia			**13 1.9**
Thyroid Gland	+	+	**51**
C-cell, Hyperplasia			**6 2.3**
Follicular Cell, Hypertrophy	1	3	**18 1.4**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	**52**
Inflammation	1	1	**40 1.5**

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2) Mild 4) Marked

DAY ON TEST	0 7 3 4	0 6 2 7	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 5 7 9	0 0 5 8 0	
460 UG/KG			*** TOTALS**
Duct, Cyst	2	1	**35 2.2**
Ovary	+	+	**52**
Cyst		3	**14 2.2**
Fibrosis		3	**1 3.0**
Inflammation			**2 3.5**
Pigmentation		3	**1 3.0**
Uterus	+	+	**52**
Adenomyosis			**1 2.0**
Cyst			**1 3.0**
Inflammation		3	**8 2.3**
Metaplasia, Squamous	2	3	**34 1.8**
Thrombosis			**2 2.5**
Artery, Inflammation, Chronic Active			**1 3.0**
Endometrium, Hyperplasia, Cystic	2		**23 2.0**
Vagina			**1**

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	**52**
Hyperplasia		4	**32 2.7**
Lymph Node			**1**
Lymph Node, Mandibular	+	+	**51**
Hyperplasia, Lymphoid			**1 2.0**

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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

DAY ON TEST	0 7 3 4	0 6 2 7	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 5 7 9	0 0 5 8 0	
460 UG/KG			*** TOTALS**
Hyperplasia, Plasma Cell	3	2	**33 1.7**
Lymph Node, Mesenteric	+	+	**52**
Spleen	+	+	**52**
Hematopoietic Cell Proliferation			**39 1.7**
Necrosis			**1 2.0**
Pigmentation	1	1	**36 1.5**
Capsule, Hemorrhage			**1 3.0**
Lymphoid Follicle, Atrophy			**2 2.0**
Red Pulp, Atrophy			**1 2.0**
Thymus	+	+	**50**
Atrophy	2	4	**44 2.8**
INTEGUMENTARY SYSTEM			
Mammary Gland	+	+	**52**
Cyst			**2 3.0**
Hyperplasia		1	**5 1.4**
Inflammation, Granulomatous			**1 3.0**
Skin	+	+	**52**
Cyst Epithelial Inclusion			**1**
MUSCULOSKELETAL SYSTEM			

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DAY ON TEST	0 7 3 4	0 6 2 7	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 5 7 9	0 0 5 8 0	
460 UG/KG			*** TOTALS**
Bone	+	+	**52**
NERVOUS SYSTEM			
Brain	+	+	**52**
Gliosis			**1 3.0**
Hemorrhage			**1 2.0**
Meninges, Inflammation			**1 2.0**
RESPIRATORY SYSTEM			
Lung	+	+	**52**
Hemorrhage			**1 2.0**
Inflammation			**3 1.0**
Metaplasia, Squamous			**1 1.0**
Alveolar Epithelium, Metaplasia, Bronchiolar	2		**18 1.4**
Alveolus, Infiltration Cellular, Histiocyte	2	2	**39 1.6**
Nose	+	+	**52**
Inflammation			**3 1.7**
Respiratory Epithelium, Hyperplasia			**7 1.3**
Respiratory Epithelium, Necrosis			**1 2.0**
Trachea	+	+	**52**
SPECIAL SENSES SYSTEM			

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DAY ON TEST	0 7 3 4	0 6 2 7	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 5 7 9	0 0 5 8 0	
460 UG/KG			*** TOTALS**
Eye	+	+	**52**
Cornea, Inflammation			**1 3.0**
Harderian Gland	+	+	**52**
Infiltration Cellular, Mononuclear Cell			**10 1.0**
URINARY SYSTEM			
Kidney	+	+	**52**
Calculus Micro Observation Only			**2**
Dilatation			**1 3.0**
Mineralization			**18 1.1**
Nephropathy	2	3	**44 1.6**
Pigmentation			**4 1.3**
Pelvis, Dilatation		3	**1 3.0**
Renal Tubule, Hyperplasia			**1 2.0**
Urinary Bladder	+	+	**52**

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DAY ON TEST	048	065	060	073	072	051	073	056	073	073	006	073	068	073	073	073	073	053	073	073	073	067	071	069	040	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	002	003	004	005	006	007	008	009	010	020	026	027	028	029	030	036	037	038	039	040	041	042	043	044	**females (cont...)**
1000 UG/KG																										
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Muscularis, Degeneration																										
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Fatty																										
Artery, Inflammation, Chronic Active									2											2						
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																										
Artery, Inflammation, Chronic Active					2																					
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																										
Artery, Inflammation, Chronic Active					3				2											3						
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation												3														
Ulcer												3														
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Artery, Inflammation, Chronic Active																				2						
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										
Artery, Inflammation, Chronic Active																				2						

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SPRAGUE-DAWLEY RATS FEMALE

1000 UG/KG

females (cont...)

DAY ON TEST	0487	0652	0602	0734	0725	0516	0733	0561	0735	0735	0064	0735	0680	0733	0735	0734	0735	0531	0733	0733	0735	0674	0718	0669	0407
ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0020	0026	0027	0028	0029	0030	0036	0037	0038	0039	0040	0041	0042	0043	0044
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus		X		X											X									X	
Basophilic Focus, Multiple																					X				
Cholangiofibrosis		2																1							
Clear Cell Focus		X																							
Clear Cell Focus, Multiple							X												X						
Degeneration, Cystic																									
Eosinophilic Focus		X																							
Eosinophilic Focus, Multiple	X		X	X	X				X	X		X	X		X	X		X					X		
Fatty Change, Focal					1		1																		
Fatty Change, Diffuse	1	1		3		3			2	3		1	3	1		2	3	1	2	2	2	1	2	2	3
Hematopoietic Cell Proliferation	1		1	1				1		2		1		1	1			1			1		1		
Hyperplasia, Nodular		X							X	X		X	X		X										
Inflammation		1				1	1			1	1	1	2	1	1	2	2		2	2	1	3	1	2	1
Mixed Cell Focus																									
Mixed Cell Focus, Multiple	X	X		X		X	X		X					X	X		X		X	X	X				
Necrosis	1	1								1		2	2		1							3		2	
Pigmentation	1	3	1	3	2	1	3	2	2	3		3	3	2	3	3	2	3	3	3	2	3	2	2	1
Toxic Hepatopathy		1		1			1		1	3		2	3	1	2	2			1	1		1	1		
Bile Duct, Cyst		2							2	3				2											
Bile Duct, Fibrosis																									
Bile Duct, Hyperplasia							1		2	1		1		2	2		1		2			2			
Centrilobular, Degeneration			1	2				2																	
Hepatocyte, Hypertrophy		1	1	2	2	2	2	2	2	3		3	3	1	3	3	2	3	2	2	2	3	3	2	2
Hepatocyte, Multinucleated		1		1	2		1	1	1	1		1	1		1	2	2	1	1	2	2	1	1	1	
Oval Cell, Hyperplasia		2	1	1	1		1		2	3		3	2	1	3	2	1		1	2	1	1	1	2	
Mesentery					+					+					+					+		+		+	
Artery, Inflammation, Chronic Active					4					4										3					
Fat, Necrosis																									

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DAY ON TEST	048	065	060	073	072	051	073	056	073	073	006	073	068	073	073	073	073	053	073	073	073	067	071	069	040
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	002	003	004	005	006	007	008	009	010	020	026	027	028	029	030	036	037	038	039	040	041	042	043	044
1000 UG/KG																									
Oral Mucosa																									
Gingival, Hyperplasia, Squamous																									
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active					1											1									
Acinus, Atrophy, Focal					2											2									
Acinus, Hyperplasia																									
Acinus, Vacuolization Cytoplasmic					1				1																
Artery, Inflammation, Chronic Active					3					3										2					
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Degeneration																									
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Squamous																									
Artery, Inflammation, Chronic Active																									
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mineralization																									
Tooth																			+						
Peridontal Tissue, Inflammation																			2						

females (cont...)

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	002	003	004	005	006	007	008	009	010	020	026	027	028	029	030	036	037	038	039	040	041	042	043	044
1000 UG/KG																									
Cardiomyopathy		2							1	1		1		1				1					3		1
Inflammation																									
Artery, Inflammation, Chronic Active																									
Endocardium, Hyperplasia																									

females (cont...)

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy		2							2						2	2									
Degeneration, Cystic				1					2	3															
Hematopoietic Cell Proliferation																								1	
Hyperplasia			2						2	3			2					2	3					1	
Hypertrophy		1	1	2	2	1	2		1	1		2	2	2	2	1	2		1	2	2	1			1
Necrosis																							3		
Vacuolization Cytoplasmic		2			1		2		1		2														
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia				1	2				1						3										
Necrosis																									
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	M	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis																									
Pars Distalis, Cyst																									
Pars Distalis, Hyperplasia					3				3			3			3		3	2	3	2			3		

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SPRAGUE-DAWLEY RATS FEMALE

1000 UG/KG

females (cont...)

DAY ON TEST	0487	0652	0602	0734	0725	0516	0733	0561	0735	0735	0064	0735	0680	0733	0735	0734	0735	0531	0733	0733	0735	0674	0718	0669	0407
ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0020	0026	0027	0028	0029	0030	0036	0037	0038	0039	0040	0041	0042	0043	0044
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Lymphocyte											2														
C-cell, Hyperplasia					1					2			2						4	3	1				2
Follicular Cell, Hyperplasia																									
Follicular Cell, Hypertrophy						2	1	1				3	1	3	2								2	1	1

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+
Inflammation	1	1			1		2		1				2	2	2				1	2	1	1	1	1	2
Duct, Cyst		2	1		2	2	2			2			2		3	2			3	2	2		2	1	2
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst		2			3										2						3	2			
Inflammation																									
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																		2							
Inflammation			3		2		2										2	2							
Metaplasia, Squamous	2	4	3	1	3	2	3	1	2				2		4	1	3	4	1	2			3	1	
Thrombosis			3																						
Ulcer																		2							
Cervix, Cyst																									
Endometrium, Hyperplasia, Cystic						2								1					1		1				

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DAY ON TEST	048	065	060	073	072	051	073	056	073	073	006	073	068	073	073	073	073	053	073	073	073	067	071	069	040	
SPRAGUE-DAWLEY RATS FEMALE 1000 UG/KG ANIMAL ID	001	002	003	004	005	006	007	008	009	010	020	026	027	028	029	030	036	037	038	039	040	041	042	043	044	**females (cont...)**
Epithelium, Hyperplasia			2																							
Vagina								+																		
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Hyperplasia	2	2	4	2	3	2		3	2		2	3	3	2	3			4		2	2	3		3		
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																							3			
Hyperplasia, Lymphoid																										
Hyperplasia, Plasma Cell		2		2	2		2		2	2	2	2	2	1	2	2			2	2						
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Hemorrhage	3																									
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation		1	3	2	2		1	4	2	2		3		1	1			3	1	1				2		
Pigmentation		2		1	1	2	3		1	2			2	3		1	2	1	2	3			3	1	2	
Lymphoid Follicle, Atrophy																						3				
Red Pulp, Atrophy																										
Thymus	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	M	+	
Atrophy		2	3	3	4	2	3	3	2	2			3	3	2	3	2	4	3	4	2	4	3		2	
Hemorrhage																										

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DAY ON TEST	048	065	060	073	072	051	073	056	073	073	006	073	068	073	073	073	073	053	073	073	073	067	071	069	040	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	002	003	004	005	006	007	008	009	010	020	026	027	028	029	030	036	037	038	039	040	041	042	043	044	**females (cont...)**
1000 UG/KG																										
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																										
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Congestion																										
Inflammation																										
Metaplasia, Squamous													1													
Alveolar Epithelium, Metaplasia, Bronchiolar		2	2		1		2		1			1	2		2	1	1				1			1		

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SPRAGUE-DAWLEY RATS FEMALE 1000 UG/KG ANIMAL ID	0060 1	0060 2	0060 3	0060 4	0060 5	0060 6	0060 7	0060 8	0060 9	0061 0	0062 0	0062 6	0062 7	0062 8	0062 9	0063 0	0063 6	0063 7	0063 8	0063 9	0064 0	0064 1	0064 2	0064 3	0064 4
Alveolus, Infiltration Cellular, Histiocyte		2	2	1	1	1	2		2			1	1		2		2		1		1			2	1
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation	1				2																		2		
Respiratory Epithelium, Hyperplasia	2				1				1			1		1	1								1		1
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
SPECIAL SENSES SYSTEM																									
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Retina, Atrophy																									
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell																									
Vacuolization Cytoplasmic										2															
URINARY SYSTEM																									
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Calculus Micro Observation Only																									
Inflammation																									
Mineralization	1				1	1		1				1	1	1					1		1		1	1	
Nephropathy	1	2		2	3	1	2	2	3	2		1	1	2	1		2	2	1	3	1		1	1	2
Pigmentation	1												1							1					
Artery, Inflammation, Chronic Active																				2					
Capsule, Inflammation, Chronic Active													2												

females (cont...)

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2) Mild 4) Marked

DAY ON TEST	048	065	060	073	072	051	073	056	073	073	006	073	068	073	073	073	073	053	073	073	073	067	071	069	040		
SPRAGUE-DAWLEY RATS FEMALE 1000 UG/KG ANIMAL ID	001	002	003	004	005	006	007	008	009	010	020	026	027	028	029	030	036	037	038	039	040	041	042	043	044		**females (cont...)**
Pelvis, Dilatation								2																			
Pelvis, Inflammation		1											2														
Transitional Epithelium, Hyperplasia													3								1						
Ureter																								+			
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation													3														

DAY ON TEST	073	029	073	073	073	064	073	073	060	067	058	073	048	073	073	073	048	073	073	055	073	073	059	073	073
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0064	0064	0065	0065	0065	0065	0065	0065	0065	0065	0065	0066	0066	0066	0066	0066	0066	0066	0066	0066	0066	0067	0067	0067	0067
1000 UG/KG	45	46	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73

females (cont...)

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Muscularis, Degeneration									2																
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Degeneration, Fatty							3																		
Artery, Inflammation, Chronic Active							3																		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan																					X				
Artery, Inflammation, Chronic Active							3														3				
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parasite Metazoan													X												
Artery, Inflammation, Chronic Active							3														3				
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																									
Ulcer																									
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Artery, Inflammation, Chronic Active																									
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active																									
Artery, Inflammation, Chronic Active																									

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SPRAGUE-DAWLEY RATS FEMALE

1000 UG/KG

females (cont...)

DAY ON TEST	073	029	073	073	073	064	073	073	060	067	058	073	048	073	073	073	048	073	073	055	073	073	059	073	073
ANIMAL ID	045	046	051	052	053	054	055	056	057	058	059	060	061	062	063	064	065	066	067	068	069	070	071	072	073
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Basophilic Focus																			X	X			X		
Basophilic Focus, Multiple																									
Cholangiofibrosis																									
Clear Cell Focus									X																
Clear Cell Focus, Multiple								X																	
Degeneration, Cystic											1														
Eosinophilic Focus									X				X	X											X
Eosinophilic Focus, Multiple	X		X									X			X	X				X			X		
Fatty Change, Focal																									
Fatty Change, Diffuse	2	2	2	2	1	1	3		2	3	2	1		1	1			3	2		3	2	2	2	3
Hematopoietic Cell Proliferation	1				1					1		1	1					1	1				1		
Hyperplasia, Nodular			X		X				X			X			X								X		
Inflammation	1	1	1	1	2	1	1	1		2	1	1	2	1	2	1	1	1	1		1	2	1	1	2
Mixed Cell Focus													X												
Mixed Cell Focus, Multiple	X		X	X	X		X	X	X	X	X	X		X					X	X	X	X	X	X	X
Necrosis	1	1					1		1	2		1	2		1		1		1				1		
Pigmentation	2		3	2	3	3	1	2	1	3	1	2	2	2	3	3	2	1	2	1	2	3	2	3	1
Toxic Hepatopathy	1		3	1	1	2	1		1	1	1	2		1	2	1		1			1	1	2		2
Bile Duct, Cyst														2		2									
Bile Duct, Fibrosis										1					1										
Bile Duct, Hyperplasia			1	1	1	2	1				2	1		2				2					1	2	1
Centrilobular, Degeneration						2								2						1					
Hepatocyte, Hypertrophy	2	2	2	1	1		1		3	2	2	1		2	3	3	2	2			1	1	3		2
Hepatocyte, Multinucleated	1		2	2	1	2	1		1	1		1	1		1	2	2		1	1	1	1	1	1	
Oval Cell, Hyperplasia	1		2	2	2	3	1	1		2		2	1	1	2	2	1	2		1	1	2	1	1	1
Mesentery				+			+														+				
Artery, Inflammation, Chronic Active							3														3				
Fat, Necrosis				3																					

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

DAY ON TEST	073	029	073	073	073	064	073	073	060	067	058	073	048	073	073	073	048	073	073	055	073	073	059	073	073	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	**females (cont...)**
1000 UG/KG	45	46	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	
Oral Mucosa										+																
Gingival, Hyperplasia, Squamous										3																
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active			1																							
Acinus, Atrophy, Focal			2																							
Acinus, Hyperplasia																					2					
Acinus, Vacuolization Cytoplasmic												1													1	
Artery, Inflammation, Chronic Active							3					2				2					2					
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration							2																			
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Squamous							1									2										
Artery, Inflammation, Chronic Active							2																			
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineralization		1																								
Tooth								+										+							+	
Peridontal Tissue, Inflammation								3										3							2	

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	073	029	073	073	073	064	073	073	060	067	058	073	048	073	073	073	048	073	073	055	073	073	059	073	073
SPRAGUE-DAWLEY RATS FEMALE 1000 UG/KG ANIMAL ID	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006
	45	46	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73
Cardiomyopathy			2	1			1					1					1	1		1	1			1	1
Inflammation						2																			
Artery, Inflammation, Chronic Active																					2				
Endocardium, Hyperplasia																								1	

females (cont...)

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy	3		3									2						2							3
Degeneration, Cystic												3					2								3
Hematopoietic Cell Proliferation																									
Hyperplasia			2	1											3				1			2			2
Hypertrophy	2	1	1	2	2		2	2	1	2	2	1	2	2	2	1	1	2	2	1	2	2	1	2	2
Necrosis						3											2								
Vacuolization Cytoplasmic			1				1				1			2	1			2					1		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia			1		1					1			1		1						2				
Necrosis						3																			
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Angiectasis											3														
Pars Distalis, Cyst																									
Pars Distalis, Hyperplasia	2			2			3					2			3								1	2	

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DAY ON TEST	073	029	073	073	073	064	073	073	060	067	058	073	048	073	073	073	048	073	073	055	073	073	059	073	073
SPRAGUE-DAWLEY RATS FEMALE 1000 UG/KG ANIMAL ID	0064 5	0064 6	0065 1	0065 2	0065 3	0065 4	0065 5	0065 6	0065 7	0065 8	0065 9	0066 0	0066 1	0066 2	0066 3	0066 4	0066 5	0066 6	0066 7	0066 8	0066 9	0067 0	0067 1	0067 2	0067 3
females (cont...)																									
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Lymphocyte																									
C-cell, Hyperplasia			3						1										X					X	
Follicular Cell, Hyperplasia																				3					
Follicular Cell, Hypertrophy	2	2	3		2					1			2		2	2	3						1	1	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation		1	1	1	2		1	1	1			1	1	1	1	1	1	1	1		1	1		1	
Duct, Cyst	2		3	3	3	2	2	2	2		2	2	2	2	2	3	3	3	3				3	2	3
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst						3						2		3		2	2						2	3	3
Inflammation						3																			
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage																									
Inflammation	2		2																		2				
Metaplasia, Squamous	4	1	4	3	2	3		2		2		1	4		1	2	4			1	1	1			
Thrombosis																									
Ulcer			2																						
Cervix, Cyst				2																					
Endometrium, Hyperplasia, Cystic		1			2	2									1	3				1		1	3	2	

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DAY ON TEST	073	029	073	073	073	064	073	073	060	067	058	073	048	073	073	073	048	073	073	055	073	073	059	073	073	
SPRAGUE-DAWLEY RATS FEMALE 1000 UG/KG ANIMAL ID	045	046	051	052	053	054	055	056	057	058	059	060	061	062	063	064	065	066	067	068	069	070	071	072	073	**females (cont...)**
Epithelium, Hyperplasia																										
Vagina																										
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Hyperplasia	3	2	2		2	3			2			3	4		3	3	2	2	2	2			3			
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Hyperplasia, Lymphoid													2													
Hyperplasia, Plasma Cell				1	2	2	1	1		2	2	3	1	1	1	3		2	1		3				3	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																							3			
Hemorrhage																										
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation	1		1	1		1		1	2	1		2	3	1	2	2		2	1		1		3		1	
Pigmentation	2	2	2	1	3	2	3	2	1	2	3	2	1	2				1	2	2	2	3	1	2	2	
Lymphoid Follicle, Atrophy																	3									
Red Pulp, Atrophy																	2									
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	3		3	3	2	4	2	3	4	4	3	4	2	3	3	2	3	4	4		3	3	4	3	4	
Hemorrhage																				2						

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DAY ON TEST	073	029	073	073	073	064	073	073	060	067	058	073	048	073	073	073	048	073	073	055	073	073	059	073	073	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	**females (cont...)**
1000 UG/KG	45	46	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																+										
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Congestion																				3						
Inflammation						4																		2		
Metaplasia, Squamous																										
Alveolar Epithelium, Metaplasia, Bronchiolar	2				1				1	2	1	2		1	1	2		1		1		1				

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DAY ON TEST	073	029	073	073	073	064	073	073	060	067	058	073	048	073	073	073	048	073	073	055	073	073	059	073	073
SPRAGUE-DAWLEY RATS FEMALE 1000 UG/KG ANIMAL ID	0064 5	0064 6	0065 1	0065 2	0065 3	0065 4	0065 5	0065 6	0065 7	0065 8	0065 9	0066 0	0066 1	0066 2	0066 3	0066 4	0066 5	0066 6	0066 7	0066 8	0066 9	0067 0	0067 1	0067 2	0067 3
Alveolus, Infiltration Cellular, Histiocyte	2		1	1	2		2	1	2	2	2	2		2	2	2		1	1	2		2	1	2	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation		2																1							
Respiratory Epithelium, Hyperplasia				1	1											1		1			1		1		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
SPECIAL SENSES SYSTEM																									
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Retina, Atrophy			2																						
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell	1								1		1							1							
Vacuolization Cytoplasmic																									
URINARY SYSTEM																									
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Calculus Micro Observation Only											X														
Inflammation						2																			
Mineralization	1	1			1	1					1				1	1			1		1			1	1
Nephropathy		1	3	2	2	2	3	1	1	1		3	1	1		1	1	2	2		3	2	1	1	2
Pigmentation			1																		1	1			
Artery, Inflammation, Chronic Active																									
Capsule, Inflammation, Chronic Active																									

females (cont...)

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DAY ON TEST	073	029	073	073	073	064	073	073	060	067	058	073	048	073	073	073	048	073	073	055	073	073	059	073	073	
SPRAGUE-DAWLEY RATS FEMALE 1000 UG/KG ANIMAL ID	0064 5	0064 6	0065 1	0065 2	0065 3	0065 4	0065 5	0065 6	0065 7	0065 8	0065 9	0066 0	0066 1	0066 2	0066 3	0066 4	0066 5	0066 6	0066 7	0066 8	0066 9	0067 0	0067 1	0067 2	0067 3	**females (cont...)**
Pelvis, Dilatation																										
Pelvis, Inflammation																										
Transitional Epithelium, Hyperplasia							1																			
Ureter																										
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										

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DAY ON TEST	0	0	
	4	5	
	2	3	
	1	0	
SPRAGUE-DAWLEY RATS FEMALE	0	0	
	0	0	
	6	6	
ANIMAL ID	7	7	
1000 UG/KG	4	5	*** TOTALS**
ALIMENTARY SYSTEM			
Esophagus	+	+	**52**
Muscularis, Degeneration			**1 2.0**
Intestine Large, Cecum	+	+	**52**
Degeneration, Fatty			**1 3.0**
Artery, Inflammation, Chronic Active			**3 2.3**
Intestine Large, Colon	+	+	**52**
Parasite Metazoan			**1**
Artery, Inflammation, Chronic Active			**3 2.7**
Intestine Large, Rectum	+	+	**52**
Parasite Metazoan			**1**
Artery, Inflammation, Chronic Active			**5 2.8**
Intestine Small, Duodenum	+	+	**52**
Inflammation			**1 3.0**
Ulcer			**1 3.0**
Intestine Small, Ileum	+	+	**52**
Artery, Inflammation, Chronic Active			**1 2.0**
Intestine Small, Jejunum	+	+	**52**
Inflammation, Chronic Active	3		**1 3.0**
Artery, Inflammation, Chronic Active			**1 2.0**

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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
2) Mild 4) Marked

DAY ON TEST	0	0	
	4	5	
	2	3	
	1	0	
SPRAGUE-DAWLEY RATS FEMALE	0	0	
	0	0	
	6	6	
ANIMAL ID	7	7	
1000 UG/KG	4	5	*** TOTALS**
Liver	+	+	**52**
Basophilic Focus		X	**8**
Basophilic Focus, Multiple			**1**
Cholangiofibrosis			**2 1.5**
Clear Cell Focus			**2**
Clear Cell Focus, Multiple			**3**
Degeneration, Cystic			**1 1.0**
Eosinophilic Focus			**5**
Eosinophilic Focus, Multiple	X		**20**
Fatty Change, Focal		3	**3 1.7**
Fatty Change, Diffuse			**39 2.0**
Hematopoietic Cell Proliferation			**19 1.1**
Hyperplasia, Nodular			**12**
Inflammation	1	2	**43 1.3**
Mixed Cell Focus			**1**
Mixed Cell Focus, Multiple			**30**
Necrosis		3	**20 1.5**
Pigmentation	1	3	**50 2.2**
Toxic Hepatopathy		1	**33 1.4**
Bile Duct, Cyst			**6 2.2**
Bile Duct, Fibrosis			**2 1.0**
Bile Duct, Hyperplasia			**21 1.5**
Centrilobular, Degeneration			**6 1.7**
Hepatocyte, Hypertrophy	1	2	**44 2.0**
Hepatocyte, Multinucleated	1	2	**40 1.3**
Oval Cell, Hyperplasia			**40 1.6**
Mesentery			**9**
Artery, Inflammation, Chronic Active			**5 3.4**
Fat, Necrosis			**1 3.0**

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1) Minimal 3) Moderate
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DAY ON TEST	0 4 2 1	0 5 3 0	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 6 7	0 0 6 7	
1000 UG/KG	4	5	*** TOTALS**
Oral Mucosa			**1**
Gingival, Hyperplasia, Squamous			**1 3.0**
Pancreas	+	+	**52**
Inflammation, Chronic Active			**3 1.0**
Acinus, Atrophy, Focal			**3 2.0**
Acinus, Hyperplasia			**1 2.0**
Acinus, Vacuolization Cytoplasmic			**4 1.0**
Artery, Inflammation, Chronic Active			**7 2.4**
Salivary Glands	+	+	**52**
Degeneration			**1 2.0**
Stomach, Forestomach	+	+	**52**
Hyperplasia, Squamous			**2 1.5**
Artery, Inflammation, Chronic Active			**1 2.0**
Stomach, Glandular	+	+	**52**
Mineralization			**1 1.0**
Tooth			**4**
Peridontal Tissue, Inflammation			**4 2.5**

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	**52**
Heart	+	+	**52**

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BLANK .. Not examined microscopically

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

DAY ON TEST	0 4 2 1	0 5 3 0	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 6 7	0 0 6 7	
1000 UG/KG	4	5	*** TOTALS**
Cardiomyopathy		1	**19 1.2**
Inflammation			**1 2.0**
Artery, Inflammation, Chronic Active			**1 2.0**
Endocardium, Hyperplasia			**1 1.0**

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	**52**
Atrophy			**9 2.3**
Degeneration, Cystic			**6 2.3**
Hematopoietic Cell Proliferation			**1 1.0**
Hyperplasia			**13 2.0**
Hypertrophy	1		**44 1.6**
Necrosis			**3 2.7**
Vacuolization Cytoplasmic			**12 1.4**
Adrenal Medulla	+	+	**52**
Hyperplasia			**10 1.4**
Necrosis			**1 3.0**
Islets, Pancreatic	+	+	**52**
Parathyroid Gland	+	+	**50**
Pituitary Gland	+	+	**52**
Angiectasis			**1 3.0**
Pars Distalis, Cyst		2	**1 2.0**
Pars Distalis, Hyperplasia			**16 2.5**

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DAY ON TEST	0	0	
	4	5	
	2	3	
	1	0	
SPRAGUE-DAWLEY RATS FEMALE	0	0	
	0	0	
	6	6	
ANIMAL ID	7	7	
1000 UG/KG	4	5	*** TOTALS**
Thyroid Gland	+	+	**52**
Infiltration Cellular, Lymphocyte			**1 2.0**
C-cell, Hyperplasia	1		**12 2.0**
Follicular Cell, Hyperplasia			**1 3.0**
Follicular Cell, Hypertrophy			**21 1.8**

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	**51**
Inflammation	1	1	**35 1.2**
Duct, Cyst	2	1	**37 2.2**
Ovary	+	+	**52**
Cyst	2		**14 2.4**
Inflammation			**1 3.0**
Uterus	+	+	**52**
Hemorrhage			**1 2.0**
Inflammation			**8 2.1**
Metaplasia, Squamous	4		**35 2.3**
Thrombosis			**1 3.0**
Ulcer			**2 2.0**
Cervix, Cyst			**1 2.0**
Endometrium, Hyperplasia, Cystic			**13 1.6**

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DAY ON TEST	0 4 2 1	0 5 3 0	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 6 7	0 0 6 7	
1000 UG/KG	4	5	*** TOTALS**
Epithelium, Hyperplasia			**1 2.0**
Vagina			**1**
HEMATOPOIETIC SYSTEM			
Bone Marrow	+	+	**52**
Atrophy		2	**1 2.0**
Hyperplasia	3		**34 2.6**
Lymph Node, Mandibular	+	+	**52**
Atrophy			**1 3.0**
Hyperplasia, Lymphoid			**1 2.0**
Hyperplasia, Plasma Cell			**30 1.9**
Lymph Node, Mesenteric	+	+	**52**
Atrophy			**1 3.0**
Hemorrhage			**1 3.0**
Spleen	+	+	**52**
Hematopoietic Cell Proliferation			**32 1.7**
Pigmentation		3	**40 2.0**
Lymphoid Follicle, Atrophy		2	**3 2.7**
Red Pulp, Atrophy			**1 2.0**
Thymus	+	+	**50**
Atrophy	2	3	**46 3.0**
Hemorrhage			**1 2.0**

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DAY ON TEST	0	0	
	4	5	
	2	3	
	1	0	
SPRAGUE-DAWLEY RATS FEMALE	0	0	
	0	0	
	6	6	
ANIMAL ID	7	7	
1000 UG/KG	4	5	*** TOTALS**
INTEGUMENTARY SYSTEM			
Mammary Gland	+	+	**52**
Skin	+	+	**52**
MUSCULOSKELETAL SYSTEM			
Bone	+	+	**52**
Skeletal Muscle			**1**
NERVOUS SYSTEM			
Brain	+	+	**52**
RESPIRATORY SYSTEM			
Lung	+	+	**52**
Congestion			**1 3.0**
Inflammation			**2 3.0**
Metaplasia, Squamous			**1 1.0**
Alveolar Epithelium, Metaplasia, Bronchiolar			**24 1.4**

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

DAY ON TEST	0 4 2 1	0 5 3 0	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 6 7	0 0 6 7	
1000 UG/KG	4	5	*** TOTALS**
Alveolus, Infiltration Cellular, Histiocyte			**34 1.6**
Nose	+	+	**52**
Inflammation			**5 1.6**
Respiratory Epithelium, Hyperplasia			**14 1.1**
Trachea	+	+	**52**
SPECIAL SENSES SYSTEM			
Eye	+	+	**52**
Retina, Atrophy			**1 2.0**
Harderian Gland	+	+	**52**
Infiltration Cellular, Mononuclear Cell			**4 1.0**
Vacuolization Cytoplasmic			**1 2.0**
URINARY SYSTEM			
Kidney	+	+	**52**
Calculus Micro Observation Only			**1**
Inflammation			**1 2.0**
Mineralization			**22 1.0**
Nephropathy	1	2	**44 1.7**
Pigmentation			**6 1.0**
Artery, Inflammation, Chronic Active			**1 2.0**
Capsule, Inflammation, Chronic Active			**1 2.0**

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DAY ON TEST	0 4 2 1	0 5 3 0	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 6 7 4	0 0 6 7 5	
1000 UG/KG			*** TOTALS**
Pelvis, Dilatation			**1 2.0**
Pelvis, Inflammation			**2 1.5**
Transitional Epithelium, Hyperplasia			**3 1.7**
Ureter			**1**
Urinary Bladder	+	+	**52**
Inflammation			**1 3.0**

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DAY ON TEST	069	073	048	073	067	073	043	073	073	073	067	071	067	073	015	072	062	073	073	071	056	073	073	073	073	
	4	4	4	3	2	3	3	3	4	5	3	8	2	5	8	7	3	4	5	1	7	5	4	3	4	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	021	022	023	024	025	026	027	028	029	030	**females (cont...)**
4600 UG/KG																										
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Artery, Inflammation, Chronic Active																									3	
Intestine Large, Colon	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																										
Artery, Inflammation, Chronic Active																										
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																									X	
Artery, Inflammation, Chronic Active																									3	
Intestine Small, Duodenum	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																										
Basophilic Focus																										
Cholangiofibrosis					3		3	3		2		3		3			2	2		3			2	2	3	
Degeneration, Cystic																										
Eosinophilic Focus, Multiple		X	X	X	X	X	X	X	X	X	X	X		X		X	X	X	X	X	X	X	X	X	X	

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SPRAGUE-DAWLEY RATS FEMALE

4600 UG/KG

females (cont...)

DAY ON TEST	069	074	048	073	067	073	043	073	074	073	067	071	067	073	015	072	062	073	073	071	056	073	073	073	073
ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	021	022	023	024	025	026	027	028	029	030
Fatty Change, Diffuse		2	2	3	3	2	2	2	3	3	3	3	2	3	3	3	2	2	3	3	2	3	3	2	2
Hematopoietic Cell Proliferation			1	1		1	1	1				1						1		2	1	1		1	1
Hyperplasia, Nodular		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X
Inflammation		2	1	1	1	2	2	1	1	1	1	1	1	1	1	2	1	1	1	2	1	2	1	1	
Mixed Cell Focus																									
Mixed Cell Focus, Multiple										X		X												X	X
Necrosis	2	1	1	2		1	2	1	1		2	2		3						3				2	
Pigmentation	2	1	1	2	2	2	2	2	1	1	1	2	2	2	1	2	2	2	2	2	2	2	2	2	2
Toxic Hepatopathy	3	4	2	4	3	4	3	4	4	2	2	4	3	4	1	4	3	4	4	3	2	4	3	4	4
Bile Duct, Cyst				2		2	2		3		2					2						2	1	2	2
Bile Duct, Hyperplasia	3	2		1	3	2		2	3	1			2	2		1	2	1	3	2	1	2	2	1	2
Centrilobular, Degeneration											3														
Hepatocyte, Hypertrophy	4	4	3	3	3	3	3	3	4	3	3	4	3	3	2	4	4	3	4	4	4	3	3	3	4
Hepatocyte, Multinucleated		1	1	2	3	2	3	2		1	1	1	3	1	1	2	2	2	1	2	3	2	2	2	2
Oval Cell, Hyperplasia	3	4	2	3	3	3	1	3	4	3	3	3	3	3		3	3	3	3	3	3	4	3	3	3
Mesentery								+					+			+		+							+
Artery, Inflammation, Chronic Active								3					4			2		3							3
Artery, Thrombosis																3									
Fat, Necrosis																									
Oral Mucosa																	+								
Gingival, Cyst																									
Pancreas	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active													3												
Acinus, Atrophy, Focal																									
Acinus, Atrophy, Diffuse																									
Acinus, Vacuolization Cytoplasmic		1	2	2		2	2	3	3	1	3	3	2	2		3	2	2	2	3	1	2	2	2	2
Artery, Inflammation, Chronic Active						3		2		2								2			2				2

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DAY ON TEST	069	073	048	073	067	073	043	073	073	073	067	071	067	073	015	072	062	073	073	071	056	073	073	073	073	
	4	4	4	3	2	3	3	3	4	5	3	8	2	5	8	7	3	4	5	1	7	5	4	3	4	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	007	007	007	007	007	007	007	007	007	007	007	007	007	007	007	007	007	007	007	007	007	007	007	007	007	**females (cont...)**
4600 UG/KG	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	21	22	23	24	25	26	27	28	29	30	
Duct, Dilatation																										
Duct, Inflammation																										
Duct, Necrosis																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Squamous																					1		2			
Inflammation																							2			
Artery, Inflammation, Chronic Active								3																		
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Artery, Inflammation, Chronic Active																										
Tooth												+		+		+		+						+		
Peridontal Tissue, Inflammation												3		2		2		2						1		

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy			1		1			1	1	1			1			1	1								1	
Inflammation																										
Artery, Inflammation, Chronic Active																										
Coronary Artery, Thrombosis												2														
Endocardium, Hyperplasia									2														1			
Epicardium, Fibrosis																										

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DAY ON TEST	069	073	048	073	067	073	043	073	073	073	067	071	067	073	015	072	062	073	073	071	056	073	073	073	073
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	021	022	023	024	025	026	027	028	029	030
4600 UG/KG																									**females (cont...)**
ENDOCRINE SYSTEM																									
Adrenal Cortex	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy	2	3		3		3	2	3	3	2		2				2		2	3			2	2	3	3
Degeneration, Cystic												1	3								3				
Hyperplasia			2						2					3		3	2	3							
Hypertrophy	2	4	3	3			1	2	1	1				3		2			2		3	2	1	1	2
Vacuolization Cytoplasmic	2			2		3		2	1				2	2		1	1	1		2	1	2			
Adrenal Medulla	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																									
Islets, Pancreatic	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pars Distalis, Hyperplasia				2		2			2			2		2		2	2			2					
Thyroid Gland	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Lymphocyte																									
C-cell, Hyperplasia				3			1	2									3					2		4	2
Follicular Cell, Hypertrophy			2	2		2	2		1	2	1	2							2			1		2	2
GENERAL BODY SYSTEM																									
NONE																									

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DAY ON TEST	069	073	048	073	067	073	043	073	073	073	067	071	067	073	015	072	062	073	073	071	056	073	073	073	073	
	734		4	3	2	3	3	3	4	5	3	8	2	5	8	7	3	4	5	1	7	5	4	3	4	
SPRAGUE-DAWLEY RATS FEMALE																										
ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	021	022	023	024	025	026	027	028	029	030	**females (cont...)**
4600 UG/KG																										
GENITAL SYSTEM																										
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation		1		1		1	1			1					1	1	2									
Duct, Cyst		2	1	3			1	2			2	2	2	2	1	2			2	2		1		2	2	
Ovary	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst				3		1				3										2			2		3	
Inflammation																		3								
Uterus	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenomyosis																									4	
Cyst				3																						
Hemorrhage																										
Inflammation				3														4		2					2	
Metaplasia, Squamous			1	2						1										1						
Endometrium, Hyperplasia, Cystic			1	2												2				4					2	
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	4	3	4	3	3	3	4	3	3	2		3	4	3	2	3	2	3	3	3	4	3		2	3	
Necrosis											3															
Lymph Node																					+					
Bronchial, Ectasia																					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

DAY ON TEST	069	073	048	073	067	073	043	073	073	073	067	071	067	073	015	072	062	073	073	071	056	073	073	073	073
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	021	022	023	024	025	026	027	028	029	030
4600 UG/KG																									
Bronchial, Hemorrhage																					1				
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy												4													
Hyperplasia, Lymphoid																									
Hyperplasia, Plasma Cell	2	2		2						2			3	1				2	2			2		2	
Lymph Node, Mesenteric	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ectasia																					2				
Spleen	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hematopoietic Cell Proliferation		1	1	1		1	3	2	2	1		2	2	2		2		2	2	2	2	1		1	2
Pigmentation			1	2				1		1					2	2	3			2	1		2	2	2
Lymphoid Follicle, Atrophy																	2								
Red Pulp, Atrophy																	2								
Thymus	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy	4	3	2	3	3	2	3		2	4		4	4	4		4	3	4	4	3	3	2	4	3	3
Hemorrhage																									
Artery, Inflammation, Chronic Active																					3				

females (cont...)

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia																									
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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

DAY ON TEST	697	734	484	733	672	733	433	733	734	735	673	718	672	735	158	727	623	734	735	711	567	735	734	733	734	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	021	022	023	024	025	026	027	028	029	030	**females (cont...)**
4600 UG/KG																										
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spinal Cord																										
Nerve, Degeneration																										
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage											2															
Inflammation																							1			
Metaplasia, Squamous		1			2				2	3						3			2					2		
Pigmentation																								1		
Alveolar Epithelium, Metaplasia, Bronchiolar			2	2	2	2		2	3	1	2	2	2	1		2	3	2	3		3	3	3	3	2	
Alveolus, Infiltration Cellular, Histiocyte			1	1	2	1		1	2	1	1	2	1	1		2	3	2	2	1	2	2	2	1	1	
Artery, Mediastinum, Inflammation, Chronic Active																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation		3		1		3				2		1				2	3		2	1		1		2		

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1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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DAY ON TEST	0697	0734	0484	0733	0672	0733	0433	0733	0734	0735	0673	0718	0672	0735	0158	0727	0623	0734	0735	0711	0567	0735	0734	0733	0734
SPRAGUE-DAWLEY RATS FEMALE 4600 UG/KG ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0021	0022	0023	0024	0025	0026	0027	0028	0029	0030
Nasolacrimal Duct, Inflammation, Suppurative																									
Olfactory Epithelium, Degeneration		2																							
Olfactory Epithelium, Metaplasia									2																
Respiratory Epithelium, Hyperplasia		2		1		1			1	1							1		2	1		1		2	1
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation													1												

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Retina, Atrophy						2					2		2						2						
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell										1				1		1			1						1

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst													3												
Mineralization				1			1	1	1					1	1	1			1				1	1	
Nephropathy	2	3	2	2	2	2	1	3	3	2	3	3	2	2	1	3	2	3	2	1	2	3	1	2	3
Pigmentation	3	1		3	2	3		3	3	2	2	2	2	2		3	2	2	2	1	1	3	2	3	2
Pelvis, Inflammation																							1		
Transitional Epithelium, Hyperplasia																							2		3

females (cont...)

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	DAY ON TEST	069	073	048	073	067	073	043	073	073	073	067	071	067	073	015	072	062	073	073	071	056	073	073	073	073	
SPRAGUE-DAWLEY RATS FEMALE	ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	021	022	023	024	025	026	027	028	029	030	**females (cont...)**
4600 UG/KG																											
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

DAY ON TEST	065	059	092	073	073	067	062	073	005	007	073	007	073	065	073	064	068	073	061	073	073	073	071	048	073	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	035	041	042	043	044	045	046	047	048	049	050	053	056	057	058	059	060	066	067	068	069	070	076	077	078	**females (cont...)**
4600 UG/KG																										
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Artery, Inflammation, Chronic Active																										
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																								X		
Artery, Inflammation, Chronic Active																				2						
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan								X					X													
Artery, Inflammation, Chronic Active																										
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	
Angiectasis																		2				2				
Basophilic Focus													X													
Cholangiofibrosis			2			3		3			2			2			2		1	2	2					
Degeneration, Cystic			1																1							
Eosinophilic Focus, Multiple		X	X	X	X	X		X			X		X	X			X	X	X	X	X	X	X	X		

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SPRAGUE-DAWLEY RATS FEMALE

4600 UG/KG

females (cont...)

DAY ON TEST	065	459	692	733	733	677	620	734	054	071	734	075	733	652	733	642	687	735	617	733	734	735	711	484	734
ANIMAL ID	035	041	042	043	044	045	046	047	048	049	050	053	056	057	058	059	060	066	067	068	069	070	076	077	078
Fatty Change, Diffuse	3	2	3	3	3	3	2	2	2		2		3	3	3		3	1	2	3	2	3	2	2	2
Hematopoietic Cell Proliferation			1	1	1			1					1		1					1	1	1			
Hyperplasia, Nodular			X	X	X	X	X	X			X		X	X	X		X	X	X	X	X	X	X		X
Inflammation	2	2	1	1	2	2			2		1		1	1	1		1	1	1	1	1	1	2	1	
Mixed Cell Focus													X												
Mixed Cell Focus, Multiple								X													X				
Necrosis	1	2						1	1		1							2	2				3		
Pigmentation		2	2	1	1	2	1	1	1		1		2	1	1		2	1	2	1	1	1	3	3	2
Toxic Hepatopathy		2	4	4	4	4	4	4			4		3	3	3		4	4	3	3	4	3	4	2	3
Bile Duct, Cyst			2		2			3			3		3		2			2	1	2	2				2
Bile Duct, Hyperplasia		2	1		1	1		1			2		2	2	2		2	1	3	2	3	1	2	2	2
Centrilobular, Degeneration																									
Hepatocyte, Hypertrophy		3	3	4	4	4	4	4	2		3		4	4	4		4	4	4	3	4	3	4	4	4
Hepatocyte, Multinucleated		1	1	1	1		1	2	2				1		1		2	1	2	1	2	2	2	3	1
Oval Cell, Hyperplasia		3	3	3	3	4	3	3			3		3	3	3		2	3	3	3	3	2	3	2	3
Mesentery		+				+									+										
Artery, Inflammation, Chronic Active						3									3										
Artery, Thrombosis																									
Fat, Necrosis		3																							
Oral Mucosa					+		+																		
Gingival, Cyst					3																				
Pancreas	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+
Inflammation, Chronic Active		1																							
Acinus, Atrophy, Focal																			1						
Acinus, Atrophy, Diffuse		3																							
Acinus, Vacuolization Cytoplasmic			2	3	3	2	3	1			2		3	1	2		2		2	3	2	2	2	2	3
Artery, Inflammation, Chronic Active											1		1						3	3	1				

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DAY ON TEST	065	459	692	733	733	677	620	734	054	071	734	075	733	652	733	642	687	735	617	733	734	735	711	484	734	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	735	741	742	743	744	745	746	747	748	749	750	753	756	757	758	759	760	766	767	768	769	770	776	777	778	**females (cont...)**
4600 UG/KG																										
Duct, Dilatation		4																	4							
Duct, Inflammation																			3							
Duct, Necrosis																										
Salivary Glands	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Squamous						2																				
Inflammation																										
Artery, Inflammation, Chronic Active																										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Artery, Inflammation, Chronic Active																			2							
Tooth					+																+					
Peridontal Tissue, Inflammation																					1					

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Heart	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	
Cardiomyopathy		2	1		1	2													1	1	1					
Inflammation												1														
Artery, Inflammation, Chronic Active																				2						
Coronary Artery, Thrombosis																										
Endocardium, Hyperplasia																										
Epicardium, Fibrosis																					3					

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DAY ON TEST	065	059	092	073	073	067	062	073	005	007	073	007	073	065	073	064	068	073	061	073	073	073	071	048	073	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	035	041	042	043	044	045	046	047	048	049	050	053	056	057	058	059	060	066	067	068	069	070	076	077	078	**females (cont...)**
4600 UG/KG																										
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy			2	3	3	2	2	2			3		3	3	3			3	2	2	3	2	2		2	
Degeneration, Cystic					3									3		2										
Hyperplasia					2											3		2	2	2		3				
Hypertrophy		2		1	1	2	1	1			1		1		1		1	1		2	1	2	3	1		
Vacuolization Cytoplasmic						2		1										2					3			
Adrenal Medulla	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia						1																				
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	
Parathyroid Gland	M	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia															3										1	
Thyroid Gland	M	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Lymphocyte																							3			
C-cell, Hyperplasia				2							4		1													
Follicular Cell, Hypertrophy			1	3					3			3			2	2	2	3			2	1	3			

GENERAL BODY SYSTEM

NONE

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SPRAGUE-DAWLEY RATS FEMALE

4600 UG/KG

females (cont...)

DAY ON TEST	065	059	092	073	073	067	062	073	005	007	073	007	073	065	073	064	068	073	061	073	073	073	071	048	073
ANIMAL ID	035	041	042	043	044	045	046	047	048	049	050	053	056	057	058	059	060	066	067	068	069	070	076	077	078
GENITAL SYSTEM																									
Clitoral Gland	+	+	M	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation								1			1		2	1			1								
Duct, Cyst		2			2	2	2						1	3			2	2			2	2	2		2
Ovary	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst						2																			
Inflammation															4										
Uterus	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Adenomyosis																									
Cyst																									
Hemorrhage																							2		
Inflammation																									
Metaplasia, Squamous															2										
Endometrium, Hyperplasia, Cystic								3						2									1		
HEMATOPOIETIC SYSTEM																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	3	2	3	3	3	3	3	4			3	3		3	2	3	2	3	3	3	3	2	3	3	3
Necrosis																									
Lymph Node																									
Bronchial, Ectasia																									

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DAY ON TEST	065	059	092	073	073	067	062	073	005	007	073	007	073	065	073	064	068	073	061	073	073	073	071	048	073	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	035	041	042	043	044	045	046	047	048	049	050	053	056	057	058	059	060	066	067	068	069	070	076	077	078	**females (cont...)**
4600 UG/KG																										
Bronchial, Hemorrhage																										
Lymph Node, Mandibular	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Hyperplasia, Lymphoid												3														
Hyperplasia, Plasma Cell				1	2			1						1			1	1		1		2	2			
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	
Ectasia																										
Spleen	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	M	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation		2	2	1		1		3			1			1	1			2	2	2	1	1	2		2	
Pigmentation	1	2	1		2	1	2		1				1		1		3		1	2		2	1	2		
Lymphoid Follicle, Atrophy							2																			
Red Pulp, Atrophy							2																			
Thymus	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	
Atrophy		4	2	3	4	3	4	4			3		4	2	4		4	2	4	3	3	3	4	4	3	
Hemorrhage	2								2			2														
Artery, Inflammation, Chronic Active											3															

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	M	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																						2				
Skin	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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

DAY ON TEST	065	459	692	733	733	677	620	734	054	071	734	075	733	652	733	642	687	735	617	733	734	735	711	484	734	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	035	041	042	043	044	045	046	047	048	049	050	053	056	057	058	059	060	066	067	068	069	070	076	077	078	**females (cont...)**
4600 UG/KG																										
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Spinal Cord																	+									
Nerve, Degeneration																	3									
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	
Hemorrhage																										
Inflammation																							2			
Metaplasia, Squamous			1			1					3											2			3	
Pigmentation																										
Alveolar Epithelium, Metaplasia, Bronchiolar		1	2	2		2	1	1			3		1	1	2		2	1	3	1	2	2	3	1	3	
Alveolus, Infiltration Cellular, Histiocyte			1	2		2	1	1			2		1	1	2		2	1	2	1	1	2	2	1	2	
Artery, Mediastinum, Inflammation, Chronic Active																					2					
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation				2			1	2			1		1		1		1	2				2	1	1		

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DAY ON TEST	065	059	092	073	073	067	062	073	005	007	073	007	073	065	073	064	068	073	061	073	073	073	071	048	073
SPRAGUE-DAWLEY RATS FEMALE 4600 UG/KG ANIMAL ID	0035	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	0053	0056	0057	0058	0059	0060	0066	0067	0068	0069	0070	0076	0077	0078
Nasolacrimal Duct, Inflammation, Suppurative																		3							
Olfactory Epithelium, Degeneration																									
Olfactory Epithelium, Metaplasia																									
Respiratory Epithelium, Hyperplasia				1	1		1	2			2	2	1		2		1	2	1	2	1	1	1	1	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation																									
SPECIAL SENSES SYSTEM																									
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Retina, Atrophy			2															2							
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Mononuclear Cell				1		1					1		1	1	1								1		
URINARY SYSTEM																									
Kidney	+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst																									
Mineralization		1	1	1		1	1	1			1		1	1	1					1				1	1
Nephropathy		3	2	2	2	3	2	2			3		2	2	3		1	2	2	3	2	2	3		2
Pigmentation			2	2	2	2	3	2			2		2	2	1	2	2	3	2	2	2		3		3
Pelvis, Inflammation			2																						
Transitional Epithelium, Hyperplasia			2																						

females (cont...)

	DAY ON TEST	065	459	692	733	733	677	620	734	054	071	734	075	733	652	733	642	687	735	617	733	734	735	711	484	734	
SPRAGUE-DAWLEY RATS FEMALE **4600 UG/KG**	ANIMAL ID	0035	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	0053	0056	0057	0058	0059	0060	0066	0067	0068	0069	0070	0076	0077	0078	**females (cont...)**
Urinary Bladder		+	+	+	+	+	+	+	+	+	M	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	

DAY ON TEST	0 6 9 9	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 7 7 9	0 0 7 8 0	
4600 UG/KG			*** TOTALS**
ALIMENTARY SYSTEM			
Esophagus	+	+	**52**
Intestine Large, Cecum	+	+	**48**
Artery, Inflammation, Chronic Active			**1 3.0**
Intestine Large, Colon	+	+	**48**
Parasite Metazoan			**1**
Artery, Inflammation, Chronic Active			**1 2.0**
Intestine Large, Rectum	+	+	**50**
Parasite Metazoan			**3**
Artery, Inflammation, Chronic Active			**1 3.0**
Intestine Small, Duodenum	+	+	**48**
Intestine Small, Ileum	+	+	**47**
Intestine Small, Jejunum	+	+	**48**
Liver	+	+	**49**
Angiectasis			**2 2.0**
Basophilic Focus			**1**
Cholangiofibrosis	4		**22 2.5**
Degeneration, Cystic			**2 1.0**
Eosinophilic Focus, Multiple	X	X	**41**

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

DAY ON TEST	0 6 9 9	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 7 7 9	0 0 7 8 0	
4600 UG/KG			*** TOTALS**
Fatty Change, Diffuse	3	3	**48 2.5**
Hematopoietic Cell Proliferation			**21 1.0**
Hyperplasia, Nodular	X	X	**43**
Inflammation	1	1	**44 1.3**
Mixed Cell Focus			**1**
Mixed Cell Focus, Multiple			**6**
Necrosis		1	**22 1.7**
Pigmentation	2	2	**48 1.7**
Toxic Hepatopathy	4		**46 3.4**
Bile Duct, Cyst			**21 2.1**
Bile Duct, Hyperplasia	2	2	**40 1.9**
Centrilobular, Degeneration			**1 3.0**
Hepatocyte, Hypertrophy	4	3	**48 3.5**
Hepatocyte, Multinucleated	2	1	**43 1.7**
Oval Cell, Hyperplasia	3	3	**46 3.0**
Mesentery	+		**9**
Artery, Inflammation, Chronic Active	3		**8 3.0**
Artery, Thrombosis			**1 3.0**
Fat, Necrosis			**1 3.0**
Oral Mucosa			**3**
Gingival, Cyst			**1 3.0**
Pancreas	+	+	**47**
Inflammation, Chronic Active			**2 2.0**
Acinus, Atrophy, Focal			**1 1.0**
Acinus, Atrophy, Diffuse			**1 3.0**
Acinus, Vacuolization Cytoplasmic	1	3	**42 2.2**
Artery, Inflammation, Chronic Active	3		**12 2.1**

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DAY ON TEST	0 6 9 9	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 7 7 9	0 0 7 8 0	
4600 UG/KG			*** TOTALS**
Duct, Dilatation	4		**3 4.0**
Duct, Inflammation	3		**2 3.0**
Duct, Necrosis	3		**1 3.0**
Salivary Glands	+	+	**51**
Stomach, Forestomach	+	+	**51**
Hyperplasia, Squamous			**3 1.7**
Inflammation			**1 2.0**
Artery, Inflammation, Chronic Active			**1 3.0**
Stomach, Glandular	+	+	**51**
Artery, Inflammation, Chronic Active			**1 2.0**
Tooth			**7**
Peridontal Tissue, Inflammation			**6 1.8**
CARDIOVASCULAR SYSTEM			
Blood Vessel	+	+	**51**
Heart	+	+	**50**
Cardiomyopathy			**16 1.1**
Inflammation			**1 1.0**
Artery, Inflammation, Chronic Active			**1 2.0**
Coronary Artery, Thrombosis			**1 2.0**
Endocardium, Hyperplasia			**2 1.5**
Epicardium, Fibrosis			**1 3.0**

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DAY ON TEST	0 6 9 9	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 7 7 9	0 0 7 8 0	*** TOTALS**
4600 UG/KG			

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	**49**	
Atrophy	2	3		**35 2.5**
Degeneration, Cystic	2	3		**8 2.5**
Hyperplasia		3		**13 2.5**
Hypertrophy	2	2		**34 1.7**
Vacuolization Cytoplasmic	2			**18 1.8**
Adrenal Medulla	+	+	**49**	
Hyperplasia				**1 1.0**
Islets, Pancreatic	+	+	**47**	
Parathyroid Gland	+	+	**47**	
Pituitary Gland	+	+	**52**	
Pars Distalis, Hyperplasia				**10 2.0**
Thyroid Gland	+	+	**49**	
Infiltration Cellular, Lymphocyte				**1 3.0**
C-cell, Hyperplasia		3		**11 2.5**
Follicular Cell, Hypertrophy				**23 2.0**

GENERAL BODY SYSTEM

NONE

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DAY ON TEST	0 6 9 9	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 7 7 9	0 0 7 8 0	
4600 UG/KG			*** TOTALS**
GENITAL SYSTEM			
Clitoral Gland	+	+	**49**
Inflammation			**13 1.2**
Duct, Cyst	2	2	**30 1.9**
Ovary	+	+	**48**
Cyst			**7 2.3**
Inflammation			**2 3.5**
Uterus	+	+	**49**
Adenomyosis			**1 4.0**
Cyst			**1 3.0**
Hemorrhage			**1 2.0**
Inflammation			**4 2.8**
Metaplasia, Squamous			**5 1.4**
Endometrium, Hyperplasia, Cystic		1	**9 2.0**
HEMATOPOIETIC SYSTEM			
Bone Marrow	+	+	**52**
Hyperplasia	4	2	**47 3.0**
Necrosis			**1 3.0**
Lymph Node	+		**2**
Bronchial, Ectasia			**1 2.0**

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DAY ON TEST	0 6 9 9	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 7 7 9	0 0 7 8 0	
4600 UG/KG			*** TOTALS**
Bronchial, Hemorrhage			**1 1.0**
Lymph Node, Mandibular	+	+	**51**
Atrophy			**1 4.0**
Hyperplasia, Lymphoid			**1 3.0**
Hyperplasia, Plasma Cell			**19 1.7**
Lymph Node, Mesenteric	+	+	**47**
Ectasia			**1 2.0**
Spleen	+	+	**47**
Hematopoietic Cell Proliferation			**34 1.6**
Pigmentation		2	**28 1.6**
Lymphoid Follicle, Atrophy	2		**3 2.0**
Red Pulp, Atrophy	2		**3 2.0**
Thymus	+	+	**49**
Atrophy	4	4	**44 3.3**
Hemorrhage			**3 2.0**
Artery, Inflammation, Chronic Active			**2 3.0**
INTEGUMENTARY SYSTEM			
Mammary Gland	+	+	**50**
Hyperplasia			**1 2.0**
Skin	+	+	**51**

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DAY ON TEST	0 6 9 9	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 7 7 9	0 0 7 8 0	
4600 UG/KG			*** TOTALS**
MUSCULOSKELETAL SYSTEM			
Bone	+	+	**52**
NERVOUS SYSTEM			
Brain	+	+	**52**
Spinal Cord			**1**
Nerve, Degeneration			**1 3.0**
RESPIRATORY SYSTEM			
Lung	+	+	**50**
Hemorrhage			**1 2.0**
Inflammation			**2 1.5**
Metaplasia, Squamous	3		**13 2.2**
Pigmentation			**1 1.0**
Alveolar Epithelium, Metaplasia, Bronchiolar		2	**40 2.0**
Alveolus, Infiltration Cellular, Histiocyte	1		**40 1.5**
Artery, Mediastinum, Inflammation, Chronic Active			**1 2.0**
Nose	+	+	**52**
Inflammation	2		**23 1.7**

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DAY ON TEST	0 6 9 9	0 7 3 3	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0 0 7 7 9	0 0 7 8 0	
4600 UG/KG			*** TOTALS**
Nasolacrimal Duct, Inflammation, Suppurative			**1 3.0**
Olfactory Epithelium, Degeneration			**1 2.0**
Olfactory Epithelium, Metaplasia			**1 2.0**
Respiratory Epithelium, Hyperplasia			**27 1.3**
Trachea	+	+	**52**
Inflammation			**1 1.0**
SPECIAL SENSES SYSTEM			
Eye	+	+	**52**
Retina, Atrophy			**6 2.0**
Harderian Gland	+	+	**52**
Infiltration Cellular, Mononuclear Cell		1	**13 1.0**
URINARY SYSTEM			
Kidney	+	+	**50**
Cyst			**1 3.0**
Mineralization	1	1	**25 1.0**
Nephropathy	3	2	**46 2.2**
Pigmentation	2	3	**42 2.2**
Pelvis, Inflammation			**2 1.5**
Transitional Epithelium, Hyperplasia			**3 2.3**

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	DAY ON TEST	0 6 9 9	0 7 3 3
SPRAGUE-DAWLEY RATS FEMALE	ANIMAL ID	0 0 7 7 9	0 0 7 8 0
4600 UG/KG			*** TOTALS**
Urinary Bladder		+	+	**50**

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DAY ON TEST	0671	0734	0735	0657	0302	0733	0734	0733	0735	0433	0718	0713	0694	0733	0630	0671	0545	0733	0734	0725	0735	0734	0733	0733	0589	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	**females (cont...)**
4600 UG/KG STOP																										
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Muscularis, Inflammation																	2									
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Artery, Inflammation, Chronic Active											2												1			
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan																										
Artery, Inflammation, Chronic Active																							3			
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parasite Metazoan											X															
Artery, Inflammation, Chronic Active											3									2			3			
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis							3																			
Basophilic Focus								X					X	X										X		
Basophilic Focus, Multiple																										
Cholangiofibrosis			3							1												2	2		3	

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SPRAGUE-DAWLEY RATS FEMALE

4600 UG/KG STOP

females (cont...)

DAY ON TEST	067	073	073	065	030	073	073	073	073	043	071	071	069	073	063	067	054	073	073	072	073	073	073	073	058
ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025
Clear Cell Focus			X														X								
Clear Cell Focus, Multiple		X						X		X	X											X			
Degeneration, Cystic														3										2	
Eosinophilic Focus			X							X		X											X		
Eosinophilic Focus, Multiple				X	X		X										X				X				
Fatty Change, Focal						2													1						
Fatty Change, Diffuse					3					1								1	2		2				
Hematopoietic Cell Proliferation		1	1				1	1	1	1	1				1	1	2		1		2	1	1	1	1
Hepatodiaphragmatic Nodule			X																						
Hyperplasia, Nodular				X																		X			
Inflammation	2	1	1	2	1	1	1	1	1	1	1	2	1	1	1	2		1	1	1	1	1	1	1	1
Mixed Cell Focus																									X
Mixed Cell Focus, Multiple		X	X			X	X	X	X	X	X		X	X		X	X	X	X		X	X	X	X	
Necrosis	1			2	2							3			3								1	1	
Pigmentation	3	2	2	1	1	2	1		1	2	1	2	1	2	3			1	1	1		1	2	1	1
Toxic Hepatopathy	1			3	1	1	1	2	2	1	1	3		1	1	1			2	2	1	3	3	3	2
Bile Duct, Cyst			2	2		3	2		2					2								2	2	2	
Bile Duct, Fibrosis			1															1	1						
Bile Duct, Hyperplasia	2		1	3		1		3				3		3					3	1		2	2	3	
Centrilobular, Degeneration	3																						2		
Hepatocyte, Hypertrophy	2		1	3	3		1		2	2	2	3			1	2			1	2	2	1	2	3	
Hepatocyte, Multinucleated		1	1		1		1			2				1	2		2	1		3	1		1	1	1
Oval Cell, Hyperplasia	2	1	1	4			1	1			1	3		2					3	1	2	2	2	2	2
Mesentery	+			+			+				+	+							+	+					
Artery, Inflammation, Chronic Active							3				3								2	2					
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Amyloid Deposition																									
Inflammation, Chronic Active																							1		1
Acinus, Atrophy, Focal																							2		2

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DAY ON TEST	0671	0734	0735	0657	0302	0733	0734	0733	0735	0433	0718	0713	0694	0733	0630	0671	0545	0733	0734	0725	0735	0734	0733	0733	0589
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0080 1	0080 2	0080 3	0080 4	0080 5	0080 6	0080 7	0080 8	0080 9	0081 0	0081 1	0081 2	0081 3	0081 4	0081 5	0081 6	0081 7	0081 8	0081 9	0082 0	0082 1	0082 2	0082 3	0082 4	0082 5
4600 UG/KG STOP																									**females (cont...)**
Acinus, Vacuolization Cytoplasmic		1				1	1			1	1		1								1		1		1
Artery, Inflammation, Chronic Active											2												2		
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia, Squamous				2																2					
Inflammation												2													
Ulcer												3													
Artery, Inflammation, Chronic Active																				3					
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Erosion	2				2																				
Mineralization																	1								
Tongue																									
Degeneration																									
Tooth						+											+						+	+	
Peridontal Tissue, Inflammation						2											1						2	2	

CARDIOVASCULAR SYSTEM

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

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SPRAGUE-DAWLEY RATS FEMALE

4600 UG/KG STOP

females (cont...)

DAY ON TEST	0671	0734	0735	0657	0302	0733	0734	0733	0735	0433	0718	0713	0694	0733	0630	0671	0545	0733	0734	0725	0735	0734	0733	0733	0589
ANIMAL ID	0080 1	0080 2	0080 3	0080 4	0080 5	0080 6	0080 7	0080 8	0080 9	0081 0	0081 1	0081 2	0081 3	0081 4	0081 5	0081 6	0081 7	0081 8	0081 9	0082 0	0082 1	0082 2	0082 3	0082 4	0082 5
ENDOCRINE SYSTEM																									
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy																			2				3		
Degeneration, Cystic		2						2								1						2	3	3	
Fibrosis							2																		
Hyperplasia	3					3		3			2		2	2				2	2	2			3	2	
Hypertrophy		2	3	1		1	3	1	1		1	1	2	2	2	3	1	2	2	2	1	3			
Necrosis															1										3
Vacuolization Cytoplasmic		1		2			2	2					2		2			1	1	1	1				
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	1	2									2	1	1						1				2		2
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Vacuolization Cytoplasmic																									
Pars Distalis, Hyperplasia			2											4	2			3				1			
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
C-cell, Hyperplasia						2			2	1	2					2				3					
Follicular Cell, Hypertrophy					3				3	2			3			2	2			1				3	3

GENERAL BODY SYSTEM

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DAY ON TEST	067	073	073	065	030	073	073	073	073	043	071	071	069	073	063	067	054	073	073	072	073	073	073	073	058	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025	**females (cont...)**
4600 UG/KG STOP																										
NONE																										
GENITAL SYSTEM																										
Clitoral Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Squamous													2													
Inflammation		1	1	2				3		1	1		1	1	1			1	1		1		1	2		
Duct, Cyst					2	2		3					3		1	2	1	2	3					2	1	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst	2							2					2						3				2			
Inflammation																										
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage	2														3											
Inflammation				3											2			2				1				
Metaplasia, Squamous		2				2		1	2	2	3						1	2				2	1	2	1	
Endometrium, Hyperplasia, Cystic			4					2	2	1					4			2				1		3	2	
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	4		4	4	4	2	2		3	4	3	4	2	2	2	3	4	2	3		3	2	3	3	4	
Lymph Node																										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	0671	0734	0735	0657	0302	0733	0734	0733	0735	0433	0718	0713	0694	0733	0630	0671	0545	0733	0734	0725	0735	0734	0733	0733	0589	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010	0011	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	0022	0023	0024	0025	**females (cont...)**
4600 UG/KG STOP																										
Hyperplasia, Plasma Cell	1	2	1			2	1	1	2						2			2					2	2		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Hemorrhage	2																									
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation	1	2	2	2	3	1	1	2	2	1	2	2	3	1	3	3	3	1	1		2	1	2	2	3	
Pigmentation		3		2		3		3	1	1		2		3	1	1		2	2	2	2	1	1	2	2	
Lymphoid Follicle, Atrophy															2											
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	4	3	3	4	3	2	2	3	4	2	4	4	4	2	3	4	2	4	2	3		3	2	4	3	
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst						3						3									2			3		
Hyperplasia																			2					2		
Inflammation, Granulomatous											2									2				2		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fracture																										

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DAY ON TEST	067	073	073	065	030	073	073	073	073	043	071	071	069	073	063	067	054	073	073	072	073	073	073	073	058	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025	**females (cont...)**
4600 UG/KG STOP																										
Skeletal Muscle																									+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																										
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Alveolar Epithelium, Hyperplasia			2				1																			
Alveolar Epithelium, Metaplasia, Bronchiolar	1	3	2	1		1			1		2					3	2	2	3	2	3		2			
Alveolus, Infiltration Cellular, Histiocyte	2	3	2	1		2		1	1		2	2		1	2	2	1	2	1	2	2	1	2		1	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation									1	1		2									1					
Glands, Cyst																										
Olfactory Epithelium, Metaplasia																										
Respiratory Epithelium, Hyperplasia											1			1												
Respiratory Epithelium, Metaplasia, Squamous												2														
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	071	074	075	067	030	073	073	073	073	043	071	071	069	073	063	067	054	073	073	072	073	073	073	073	058	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	016	017	018	019	020	021	022	023	024	025	**females (cont...)**
4600 UG/KG STOP																										
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Mononuclear Cell		1							1				1			1	1	1		1	1					
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accumulation, Hyaline Droplet				3								2														
Amyloid Deposition																				2						
Cyst															3											
Mineralization	1	1	1			1			1	1	1	1		1	2		1				1			1	1	
Nephropathy	1	2	1	2		2	4	2	2	1	3	1	2	2	2	2	2	2	2	3	2	2	3	2	2	
Pigmentation			1	2		1																				
Artery, Inflammation, Chronic Active																							3			
Pelvis, Dilatation																										
Pelvis, Inflammation				1																			1			
Ureter																										
Cyst																										
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation															2											

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DAY ON TEST	0160	0642	0734	0734	0733	0733	0713	0680	0734	0672	0696	0575	0582	0545	0567	0735	0733	0617	0733	0733	0735	0734	0567	0734	0207	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099	0100	0101	0102	0103	0104	0105	0106	0107	0108	0109	0110	*** TOTALS**
4600 UG/KG STOP																										
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Muscularis, Inflammation																										**1 2.0**
Intestine Large, Cecum	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Artery, Inflammation, Chronic Active																										**2 1.5**
Intestine Large, Colon	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Parasite Metazoan																				X						**1**
Artery, Inflammation, Chronic Active											3															**2 3.0**
Intestine Large, Rectum	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Parasite Metazoan																	X									**2**
Artery, Inflammation, Chronic Active											3				3											**5 2.8**
Intestine Small, Duodenum	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Intestine Small, Ileum	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Intestine Small, Jejunum	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Liver	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Angiectasis																										**1 3.0**
Basophilic Focus																					X					**5**
Basophilic Focus, Multiple			X	X	X				X																	**4**
Cholangiofibrosis		2			1	3							1					2								**10 2.0**

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DAY ON TEST	0160	0642	0734	0734	0733	0733	0713	0680	0734	0672	0696	0575	0582	0545	0567	0735	0733	0617	0733	0733	0735	0734	0567	0734	0207	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0082 6	0082 7	0082 8	0082 9	0083 0	0083 1	0083 2	0083 3	0083 4	0083 5	0083 6	0083 7	0083 8	0083 9	0084 0	0084 1	0084 2	0084 3	0084 4	0084 5	0084 6	0084 7	0084 8	0084 9	0085 0	*** TOTALS**
4600 UG/KG STOP																										
Clear Cell Focus							X																			**3**
Clear Cell Focus, Multiple				X	X														X	X				X		**10**
Degeneration, Cystic									2					2												**4 2.3**
Eosinophilic Focus			X										X												X	**7**
Eosinophilic Focus, Multiple		X		X		X	X		X		X	X				X										**13**
Fatty Change, Focal					1				1				1		1	1		2						1		**9 1.2**
Fatty Change, Diffuse										1											1				3	**8 1.8**
Hematopoietic Cell Proliferation			1	2	1	1	1			1	1		1	2	1		1	1	1	1	1					**31 1.1**
Hepatodiaphragmatic Nodule																										**1**
Hyperplasia, Nodular						X					X															**4**
Inflammation		1	1	1		1	1	1	1	1	1	3	1	1	1	1	1	1	1	2	1	1	1	1	1	**47 1.1**
Mixed Cell Focus															X											**2**
Mixed Cell Focus, Multiple				X	X	X	X		X	X	X	X				X	X	X	X	X	X	X		X		**34**
Necrosis				1			1	3					2	2	2					1						**14 1.8**
Pigmentation		2	1	2	2	1	2	1	2	1	1	1	1	1		2	1	2	1	2	1	1	1	1		**43 1.4**
Toxic Hepatopathy		2		1		3	2		2	2	2		1	1	1	1	2	1	3	2		1				**36 1.7**
Bile Duct, Cyst						1			3		3					4	2									**14 2.3**
Bile Duct, Fibrosis							1		2							1						1				**7 1.1**
Bile Duct, Hyperplasia				2	2	2	2		2	1			1	1		2		1	1		1	2				**25 1.9**
Centrilobular, Degeneration																										**2 2.5**
Hepatocyte, Hypertrophy		3				2	3		2	2	1		2	2		2	2		2	1					2	**30 2.0**
Hepatocyte, Multinucleated			1	1	1	1	3	1		2	1		2	1	1	1	1		1		1	1	1	1		**32 1.3**
Oval Cell, Hyperplasia		1		2	1	2	2		2	2			1	1		2		1	1			1				**29 1.7**
Mesentery						+		+																		**9**
Artery, Inflammation, Chronic Active						3																				**5 2.6**
Pancreas	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Amyloid Deposition		2																								**1 2.0**
Inflammation, Chronic Active		2							1																	**4 1.3**
Acinus, Atrophy, Focal		2							2																	**4 2.0**

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DAY ON TEST	0160	0642	0734	0734	0733	0733	0713	0680	0734	0672	0696	0575	0582	0545	0567	0735	0733	0617	0733	0733	0735	0734	0567	0734	0207	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0082 6	0082 7	0082 8	0082 9	0083 0	0083 1	0083 2	0083 3	0083 4	0083 5	0083 6	0083 7	0083 8	0083 9	0084 0	0084 1	0084 2	0084 3	0084 4	0084 5	0084 6	0084 7	0084 8	0084 9	0085 0	*** TOTALS**
4600 UG/KG STOP																										
Acinus, Vacuolization Cytoplasmic										1																**10 1.0**
Artery, Inflammation, Chronic Active									2	1	2															**5 1.8**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Stomach, Forestomach	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Hyperplasia, Squamous		2				2						3														**5 2.2**
Inflammation		2				3						2														**4 2.3**
Ulcer		2				2																				**3 2.3**
Artery, Inflammation, Chronic Active																										**1 3.0**
Stomach, Glandular	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Erosion																										**2 2.0**
Mineralization																										**1 1.0**
Tongue		+																								**1**
Degeneration		2																								**1 2.0**
Tooth			+																+		+					**7**
Peridontal Tissue, Inflammation			2																3		2					**7 2.0**

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cardiomyopathy		1			1	2		1			2										1	1				**19 1.1**

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DAY ON TEST	0160	0642	0734	0734	0733	0733	0713	0680	0734	0672	0696	0575	0582	0545	0567	0735	0733	0617	0733	0733	0735	0734	0567	0734	0207	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	*** TOTALS**
4600 UG/KG STOP																										
ENDOCRINE SYSTEM																										
Adrenal Cortex	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Atrophy					2		1																			**4 2.0**
Degeneration, Cystic					3		1				2									2	1			2		**12 2.0**
Fibrosis																										**1 2.0**
Hyperplasia			2		2				3					2	3		2	2		2	3			2		**21 2.3**
Hypertrophy			1	1	3		2	2	1	1	4	2	1	1		1	2	1	2	2	1	2		2		**38 1.7**
Necrosis		3																					2			**4 2.3**
Vacuolization Cytoplasmic		1	2					2	1		2	2	1	1	1		1							1		**21 1.4**
Adrenal Medulla	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Hyperplasia		1		1		2			1						1				2	3	1					**16 1.5**
Islets, Pancreatic	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Vacuolization Cytoplasmic																2										**1 2.0**
Pars Distalis, Hyperplasia					2		2		2							2		2								**10 2.2**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
C-cell, Hyperplasia			2	1											1											**9 1.8**
Follicular Cell, Hypertrophy					1							3		2												**12 2.3**
GENERAL BODY SYSTEM																										

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DAY ON TEST	0160	0642	0734	0734	0733	0733	0713	0680	0734	0672	0696	0575	0582	0545	0567	0735	0733	0617	0733	0733	0735	0734	0567	0734	0207	
SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0026	0027	0028	0029	0030	0031	0032	0033	0034	0035	0036	0037	0038	0039	0040	0041	0042	0043	0044	0045	0046	0047	0048	0049	0050	*** TOTALS**
4600 UG/KG STOP																										
NONE																										
GENITAL SYSTEM																										
Clitoral Gland	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**
Hyperplasia, Squamous																										**1 2.0**
Inflammation			1		1	1	1		1	1		1	1	1			2		2	1	3	1		2		**29 1.3**
Duct, Cyst		1			1	1				2	2		2	1	1		2	3	2	2	2	2	2	2	1	**28 1.8**
Ovary	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Cyst					3		3				3		3				2									**10 2.5**
Inflammation					3																					**1 3.0**
Uterus	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Hemorrhage																										**2 2.5**
Inflammation		3		2			3						1			2		2								**10 2.1**
Metaplasia, Squamous							4	1		1	2		1			1	1		1	1		1		2		**23 1.6**
Endometrium, Hyperplasia, Cystic			4	3	2				4	1			4	4		4	2	4	2	2						**21 2.7**
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia	2	3	3	2	2	3	4	4	2	2	3	3	3	4	2	2		4	3	3			3		2	**43 2.9**
Lymph Node								+																		**1**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**

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SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0086	0087	0088	0089	0090	0091	0092	0093	0094	0095	0096	0097	0098	0099	0100	0101	0102	0103	0104	0105	0106	0107	0108	0109	0110	*** TOTALS**
4600 UG/KG STOP																										
Hyperplasia, Plasma Cell			1	2		2		2	2	2	2								2	2	1			2		**22 1.7**
Lymph Node, Mesenteric	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Atrophy																							3			**1 3.0**
Hemorrhage		2																								**2 2.0**
Spleen	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Hematopoietic Cell Proliferation			2	3	2	3	3	3	1		2	2	3	2	2	2		3	2	2	2		3	1		**43 2.1**
Pigmentation		2	2						2	2			1		1	2	3		2		1	3		2	2	**31 1.9**
Lymphoid Follicle, Atrophy																										**1 2.0**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy		4	2	2	4	2	3	4	3	3	3	2	3	4	4	3		3	2	3	3	2	4	2		**46 3.0**
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cyst										3																**5 2.8**
Hyperplasia			1						1																	**4 1.5**
Inflammation, Granulomatous									2																	**4 2.0**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Fracture																									X	**1**

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SPRAGUE-DAWLEY RATS FEMALE ANIMAL ID	0082 6	0082 7	0082 8	0082 9	0083 0	0083 1	0083 2	0083 3	0083 4	0083 5	0083 6	0083 7	0083 8	0083 9	0084 0	0084 1	0084 2	0084 3	0084 4	0084 5	0084 6	0084 7	0084 8	0084 9	0085 0	*** TOTALS**	
4600 UG/KG STOP																											
Skeletal Muscle								+																		**2**	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hemorrhage																									2		**1 2.0**
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation								4	2																		**2 3.0**
Alveolar Epithelium, Hyperplasia																				2							**3 1.7**
Alveolar Epithelium, Metaplasia, Bronchiolar		2	2	1		2	1			2	1		2	2	1	2	1	2	3	1		1	1	1			**32 1.8**
Alveolus, Infiltration Cellular, Histiocyte		2	2	2		1	2		1	2	2	1	2	2		2	2	2	2	2	1	2	1	2			**40 1.7**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation					2			3			1				1												**8 1.5**
Glands, Cyst					2																						**1 2.0**
Olfactory Epithelium, Metaplasia								3																			**1 3.0**
Respiratory Epithelium, Hyperplasia			1	1		1		3	1								1						1				**9 1.2**
Respiratory Epithelium, Metaplasia, Squamous																											**1 2.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	

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4600 UG/KG STOP																										
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Infiltration Cellular, Mononuclear Cell				1								1									1					**11 1.0**
URINARY SYSTEM																										
Kidney	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Accumulation, Hyaline Droplet																										**2 2.5**
Amyloid Deposition																										**1 2.0**
Cyst																										**1 3.0**
Mineralization			1					1	1	1		1	1		1		1	1	1	1	1			1	1	**28 1.0**
Nephropathy		3	1	2	3	3	1	2	3	2	4	1	2	1	3	2	1	1	2	2	1	2	2	1	1	**48 2.0**
Pigmentation									1							1		1								**6 1.2**
Artery, Inflammation, Chronic Active																										**1 3.0**
Pelvis, Dilatation		3				3										2										**3 2.7**
Pelvis, Inflammation																										**2 1.0**
Ureter		+				+																				**2**
Cyst		2				2																				**2 2.0**
Urinary Bladder	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Inflammation																										**1 2.0**

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4600 UG/KG STOP																											

*** END OF REPORT ***

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