F1_Rev.1_RE

NTP Study Number:	C20209
Lock Date:	08/31/2011
Cage Range:	ALL
Date Range:	ALL
Reasons For Removal:	25021 TSAC 25020 NATD 25019 MSAC 25018 DACC
Removal Date Range:	ALL
Treatment Groups:	Include ALL
Study Gender:	Both
TDMSE Version:	3.0.2.1_001
PWG Approval Date:	NONE

WISTAR HAN RATS MALE

0 MG/KG

DAY ON TEST	0730	0730	0730	0730	0676	0730	0732	0553	0732	0732	0732	0732	0732	0731	0731	0731	0730	0620	0729	0729	0729	0669	0731	0731	0515	
ANIMAL ID	00003	00005	00006	00007	00008	00009	00010	00011	00012	00013	00015	00016	00017	00019	00020	00021	00022	00024	00025	00026	00027	00028	00030	00031	00032	**males (cont...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperkeratosis																										
Periesophageal Tissue, Inflammation, Granulomatous, Chronic																										
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Vacuolization Cytoplasmic								3																		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Epithelium, Vacuolization Cytoplasmic								4																		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus	X													X	X					X		X				
Basophilic Focus, Multiple		X								X			X				X									
Clear Cell Focus																										
Clear Cell Focus, Multiple	X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Congestion																	1									
Eosinophilic Focus							X				X					X										
Fatty Change		1	1	1	4	1	1	4	1				1	1	1	1					1	3		1	4	
Fibrosis													1													
Hemorrhage														2												

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2) Mild 4) Marked

WISTAR HAN RATS MALE

0 MG/KG

DAY ON TEST	0730	0730	0730	0730	0676	0730	0732	0553	0732	0732	0732	0732	0732	0731	0731	0731	0730	0620	0729	0729	0729	0669	0731	0731	0515	
ANIMAL ID	00003	00005	00006	00007	00008	00009	00010	00011	00012	00013	00015	00016	00017	00019	00020	00021	00022	00024	00025	00026	00027	00028	00030	00031	00032	**males (cont...)**
Inflammation, Chronic																										
Mixed Cell Focus																										
Thrombosis											1															
Bile Duct, Hyperplasia				1								1	1	1		1	1	1					1	1		
Hepatocyte, Hypertrophy																										
Hepatocyte, Necrosis																										
Mesentery		+				+							+	+			+							+		
Hemorrhage														2												
Fat, Necrosis		1				1							2				2							2		
Oral Mucosa																	+									
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy				1																						
Inflammation, Chronic											1															
Pigmentation, Hemosiderin								1																		
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Duct, Parotid Gland, Inflammation, Acute																										
Parotid Gland, Atrophy																									3	
Parotid Gland, Hyperplasia, Focal															1											
Parotid Gland, Inflammation, Chronic											1															
Parotid Gland, Vacuolization Cytoplasmic			1		1			2																	2	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion																										
Hyperkeratosis					1			3			1											2			3	
Inflammation, Acute																										
Inflammation, Chronic								3														1				
Inflammation, Chronic Active					1					3															2	

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WISTAR HAN RATS MALE																										
0 MG/KG																										
ANIMAL ID	00003	00005	00006	00007	00008	00009	00010	00011	00012	00013	00015	00016	00017	00019	00020	00021	00022	00024	00025	00026	00027	00028	00030	00031	00032	**males (cont...)**
Ulcer								2														1			2	
Epithelium, Hyperplasia					2			3			1											3			3	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineralization	1	1												1			1	1						1		
Tooth																						+				
CARDIOVASCULAR SYSTEM																										
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	2	1		1	1	1	2	1	1		1		2	2	2	1		2		2		1		2		
Epicardium, Inflammation, Granulomatous																										
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis					1	1	1				1	1							1			1				
Degeneration, Cystic															2											
Hyperplasia, Focal	1		2	1		2														1			1			
Hypertrophy, Focal					1					1		1					1									
Vacuolization Cytoplasmic		1		1	1	1	1									1			1		1	1				
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	+	+	+	
Cyst, Multiple														3												

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ANIMAL ID	00003	00005	00006	00007	00008	00009	00010	00011	00012	00013	00015	00016	00017	00019	00020	00021	00022	00024	00025	00026	00027	00028	00030	00031	00032	**males (cont...)**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Pars Distalis, Cyst																											
Pars Distalis, Cyst, Multiple				X																							
Pars Distalis, Hyperplasia, Focal			1	1			2		1					1	2				1	1	1			2			
Pars Intermedia, Hemorrhage													2														
Pars Intermedia, Hyperplasia, Focal		2																									
Pars Nervosa, Inflammation, Chronic		2					1																				
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Cyst																											
C-cell, Hyperplasia	2	2	1	1	1	3	1	1	2	2	2	1	2	1	1	2	2	2	1	1	1	1	2	1	1		
Follicle, Hypertrophy																											
Follicular Cell, Hyperplasia		1					1												1								
GENERAL BODY SYSTEM																											
Tissue NOS		+																									
Fibrosis		2																									
Inflammation, Chronic Active																											
GENITAL SYSTEM																											
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Vacuolization Cytoplasmic																		2									
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation, Granulomatous, Chronic																											
Inflammation, Chronic													1				1										
Mineralization																											
Duct, Ectasia							2			2																	

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DAY ON TEST	730	730	730	730	676	730	732	553	732	732	732	732	732	731	731	731	730	620	729	729	729	669	731	731	515	
WISTAR HAN RATS MALE																										
0 MG/KG																										
ANIMAL ID	00003	00005	00006	00007	00008	00009	00010	00011	00012	00013	00015	00016	00017	00019	00020	00021	00022	00024	00025	00026	00027	00028	00030	00031	00032	**males (cont...)**
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																										
Inflammation, Granulomatous			2																							
Inflammation, Chronic Active	1				2			1		1	1		1					1				1				
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute																										
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration			2		2		1						3			4		2		4			3			
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node																										
Mediastinal, Hemorrhage																										
Mediastinal, Hyperplasia, Plasma Cell																										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia																	1							2		
Hemorrhage			2		1		3								2											
Pigmentation, Hemosiderin					1																					
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage	1																									
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrosis, Focal					2																					
Hematopoietic Cell Proliferation			1		2		1		1	1	1	1			1			1	1	1	2			2		

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WISTAR HAN RATS MALE																										
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ANIMAL ID	00003	00005	00006	00007	00008	00009	00010	00011	00012	00013	00015	00016	00017	00019	00020	00021	00022	00024	00025	00026	00027	00028	00030	00031	00032	**males (cont...)**
Hemorrhage, Focal															4											
Pigmentation					1	1		1	1	1								1							2	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy					4		1	1			1					1		3				3	2		3	
Hemorrhage																2										
INTEGUMENTARY SYSTEM																										
Mammary Gland	M	+	M	+	+	+	+	+	+	+	M	+	M	M	M	+	+	+	M	M	+	M	+	+	+	
Pigmentation, Hemosiderin					1													1								
Duct, Dilatation																									1	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion																										
Inflammation, Acute																										
Inflammation, Chronic																							1			
Inflammation, Chronic Active	3																									
Ulcer																										
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																										
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Compression	2				3			3										1					1		3	

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WISTAR HAN RATS MALE																										
0 MG/KG ANIMAL ID	00003	00005	00006	00007	00008	00009	00010	00011	00012	00013	00015	00016	00017	00019	00020	00021	00022	00024	00025	00026	00027	00028	00030	00031	00032	**males (cont...)**
Peripheral Nerve																						+				
Spinal Cord																						+				
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte				1		1	1		1		1	1			1	1		1		1	1		1	1		
Inflammation, Granulomatous, Multifocal													2													
Inflammation, Acute																										
Inflammation, Chronic																										
Alveolar Epithelium, Hyperplasia						3																				
Mediastinum, Inflammation, Granulomatous																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fungus												2														
Inflammation, Acute												2														
Squamous Epithelium, Cyst																										
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute																										
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Retina, Atrophy		2				2									2						2					
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal																										

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URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst	X																									
Hydronephrosis																		3								
Inflammation, Chronic Active						1																				
Nephropathy	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	4	1	1	1	1	1	1	1	
Pelvis, Inflammation, Chronic Active	1	2	2			1	1			2	1		1		1	1	1			1					1	
Pelvis, Mineralization	1	2		1	1		1	1		1				1		1	1						2			
Renal Tubule, Hyperplasia																										
Ureter																		+								
Cyst																		1								
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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0 MG/KG

DAY ON TEST	073 1	073 1	073 1	073 1	073 0	073 0	070 9	057 4	072 9	072 9	072 9	000 3	050 8	004 4	073 1	053 7	073 1	073 0	073 0	063 0	073 1	073 1	061 9	073 1	
ANIMAL ID	00033	00034	00035	00036	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00049	00050	00051	00052	00053	00055	00056	00057	00058	00059	*** TOTALS**
ALIMENTARY SYSTEM																									
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Hyperkeratosis																				2					**1 2.0**
Periesophageal Tissue, Inflammation, Granulomatous, Chronic														4											**1 4.0**
Intestine Large, Cecum	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	**46**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	**48**
Intestine Large, Rectum	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**
Intestine Small, Duodenum	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	**46**
Epithelium, Vacuolization Cytoplasmic																									**1 3.0**
Intestine Small, Ileum	+	+	+	+	+	+	A	A	+	+	+	+	+	A	+	A	+	+	+	+	+	+	+	+	**45**
Intestine Small, Jejunum	+	+	+	+	+	+	A	A	+	+	+	+	+	A	+	A	+	+	+	+	+	+	+	+	**45**
Epithelium, Vacuolization Cytoplasmic																									**1 4.0**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Basophilic Focus		X		X																				X	**8**
Basophilic Focus, Multiple					X										X		X				X				**8**
Clear Cell Focus						X																			**1**
Clear Cell Focus, Multiple	X	X	X	X	X				X	X	X				X	X	X	X	X		X	X		X	**38**
Congestion									1				1				1								**4 1.0**
Eosinophilic Focus																									**3**
Fatty Change	1		1	1	1	1	3	2	1		1				1	1	2			1	1	1		1	**32 1.5**
Fibrosis																									**1 1.0**
Hemorrhage									2																**2 2.0**

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0 MG/KG

DAY ON TEST	073 1	073 1	073 1	073 1	073 0	073 0	070 9	057 4	072 9	072 9	072 9	000 3	050 8	004 4	073 1	053 7	073 1	073 0	073 0	063 0	073 1	073 1	061 9	073 1	
ANIMAL ID	000 33	000 34	000 35	000 36	000 38	000 39	000 40	000 41	000 42	000 43	000 44	000 45	000 46	000 47	000 49	000 50	000 51	000 52	000 53	000 55	000 56	000 57	000 58	000 59	*** TOTALS**
Inflammation, Chronic																							1		**1 1.0**
Mixed Cell Focus		X															X								**2**
Thrombosis																									**1 1.0**
Bile Duct, Hyperplasia		1									1						1	1	1	2				1	**16 1.1**
Hepatocyte, Hypertrophy											1														**1 1.0**
Hepatocyte, Necrosis							2	1								1				1					**4 1.3**
Mesentery						+		+		+						+							+	+	**12**
Hemorrhage																4									**2 3.0**
Fat, Necrosis						2				2													1	2	**9 1.7**
Oral Mucosa																									**1**
Pancreas	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	**46**
Atrophy	1																			1					**3 1.0**
Inflammation, Chronic																									**1 1.0**
Pigmentation, Hemosiderin																									**1 1.0**
Salivary Glands	+	+	+	+	+	+	A	A	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	**46**
Duct, Parotid Gland, Inflammation, Acute																				1					**1 1.0**
Parotid Gland, Atrophy																				2					**2 2.5**
Parotid Gland, Hyperplasia, Focal																									**1 1.0**
Parotid Gland, Inflammation, Chronic																									**1 1.0**
Parotid Gland, Vacuolization Cytoplasmic																									**4 1.5**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Erosion																				1					**1 1.0**
Hyperkeratosis								2	2											2				2	**9 2.0**
Inflammation, Acute																				1					**1 1.0**
Inflammation, Chronic								2																	**3 2.0**
Inflammation, Chronic Active																									**3 2.0**

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WISTAR HAN RATS MALE

0 MG/KG

DAY ON TEST	0731	0731	0731	0731	0730	0730	0709	0574	0729	0729	0729	0003	0508	0044	0731	0537	0731	0730	0730	0630	0731	0731	0619	0731	
ANIMAL ID	00033	00034	00035	00036	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00049	00050	00051	00052	00053	00055	00056	00057	00058	00059	*** TOTALS**
Ulcer																									**3 1.7**
Epithelium, Hyperplasia								4												3				2	**8 2.6**
Stomach, Glandular	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**
Mineralization			1																						**7 1.0**
Tooth																									**1**
CARDIOVASCULAR SYSTEM																									
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Cardiomyopathy	1	2	1		2	2	2	3	1		1				1		2	2		2	1	2		1	**33 1.5**
Epicardium, Inflammation, Granulomatous														4											**1 4.0**
ENDOCRINE SYSTEM																									
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Angiectasis			1			1			1											1			1	1	**13 1.0**
Degeneration, Cystic																									**1 2.0**
Hyperplasia, Focal			2	1						1								1	1	1				1	**13 1.2**
Hypertrophy, Focal				1	1				1	1								1							**9 1.0**
Vacuolization Cytoplasmic			1		1																			1	**12 1.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Hyperplasia													1												**1 1.0**
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	**47**
Cyst, Multiple																									**1 3.0**

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WISTAR HAN RATS MALE

0 MG/KG

DAY ON TEST	07311	07311	07311	07311	07300	07300	07009	05744	07229	07229	07229	00303	05088	00444	07311	05337	07311	07300	07300	06300	07311	07311	06199	07311		
ANIMAL ID	00033	00034	00035	00036	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00049	00050	00051	00052	00053	00055	00056	00057	00058	00059	*** TOTALS**	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Pars Distalis, Cyst					X				X		X														**3**	
Pars Distalis, Cyst, Multiple																									**1**	
Pars Distalis, Hyperplasia, Focal					1						1										1	1		2	**15**	**1.3**
Pars Intermedia, Hemorrhage																									**1**	**2.0**
Pars Intermedia, Hyperplasia, Focal	1																								**2**	**1.5**
Pars Nervosa, Inflammation, Chronic																									**2**	**1.5**
Thyroid Gland	+	+	+	+	+	+	A	A	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	**45**	
Cyst																				X					**1**	
C-cell, Hyperplasia	2	2	2	1	2	2			2	2	2		1		1		2	2	2	1	1	2	1	1	**44**	**1.5**
Follicle, Hypertrophy																				2					**1**	**2.0**
Follicular Cell, Hyperplasia	2	1	1						1		1														**8**	**1.1**
GENERAL BODY SYSTEM																										
Tissue NOS								+						+											**3**	
Fibrosis																									**1**	**2.0**
Inflammation, Chronic Active														4											**1**	**4.0**
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Vacuolization Cytoplasmic																									**1**	**2.0**
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Inflammation, Granulomatous, Chronic																		1							**1**	**1.0**
Inflammation, Chronic																								1	**3**	**1.0**
Mineralization		1																							**1**	**1.0**
Duct, Ectasia																									**2**	**2.0**

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WISTAR HAN RATS MALE

0 MG/KG

DAY ON TEST	0731	0731	0731	0731	0730	0730	0709	0574	0729	0729	0729	0003	0508	0044	0731	0537	0731	0730	0730	0630	0731	0731	0619	0731	
ANIMAL ID	00033	00034	00035	00036	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00049	00050	00051	00052	00053	00055	00056	00057	00058	00059	*** TOTALS**
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Hyperplasia									1																**1 1.0**
Inflammation, Granulomatous																									**1 2.0**
Inflammation, Chronic Active		1				1		2	1		1		1					1					2	2	**17 1.2**
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Inflammation, Acute															1										**1 1.0**
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Degeneration				2						2					2		1					2		3	**14 2.4**
HEMATOPOIETIC SYSTEM																									
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Lymph Node							+							+											**2**
Mediastinal, Hemorrhage							3																		**1 3.0**
Mediastinal, Hyperplasia, Plasma Cell														3											**1 3.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	**48**
Ectasia																									**2 1.5**
Hemorrhage																									**4 2.0**
Pigmentation, Hemosiderin																									**1 1.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Hemorrhage															1										**2 1.0**
Spleen	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	**47**
Fibrosis, Focal																									**1 2.0**
Hematopoietic Cell Proliferation	1	1			1	1					3	3			1		1		1		1				**23 1.3**

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WISTAR HAN RATS MALE

0 MG/KG

DAY ON TEST	0731	0731	0731	0731	0730	0730	0709	0574	0729	0729	0729	0003	0508	0044	0731	0537	0731	0730	0730	0630	0731	0731	0619	0731	
ANIMAL ID	00033	00034	00035	00036	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00049	00050	00051	00052	00053	00055	00056	00057	00058	00059	* TOTALS
Hemorrhage, Focal																									**1 4.0**
Pigmentation								1					2							1		1	2		**12 1.3**
Thymus	+	+	+	+	+	+	A	A	+	+	+	+	+	M	+	A	+	+	+	+	+	+	+	+	**45**
Atrophy		2											1							3			4	2	**14 2.2**
Hemorrhage																									**1 2.0**
INTEGUMENTARY SYSTEM																									
Mammary Gland	+	+	+	M	+	+	I	+	+	M	+	M	+	+	+	I	M	+	+	M	+	+	+	+	**33**
Pigmentation, Hemosiderin																							1		**3 1.0**
Duct, Dilatation								3					1										1		**4 1.5**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Cyst Epithelial Inclusion											4														**1 4.0**
Inflammation, Acute																				2					**1 2.0**
Inflammation, Chronic																									**1 1.0**
Inflammation, Chronic Active																									**1 3.0**
Ulcer																				2					**1 2.0**
MUSCULOSKELETAL SYSTEM																									
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Skeletal Muscle									+																**1**
NERVOUS SYSTEM																									
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Compression								1					3							3			3		**10 2.3**

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0 MG/KG

DAY ON TEST	07311	07311	07311	07311	07300	07300	07009	05744	07229	07229	07229	00303	05088	00444	07311	05537	07311	07300	07300	06300	07311	07311	06199	07311	
ANIMAL ID	00033	00034	00035	00036	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00049	00050	00051	00052	00053	00055	00056	00057	00058	00059	*** TOTALS**
Peripheral Nerve																							+		**2**
Spinal Cord																							+		**2**
RESPIRATORY SYSTEM																									
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Infiltration Cellular, Histiocyte	1		1			1		1		1	1						1	1	1		1			1	**24 1.0**
Inflammation, Granulomatous, Multifocal																									**1 2.0**
Inflammation, Acute							3													1					**2 2.0**
Inflammation, Chronic			1									1		1										1	**4 1.0**
Alveolar Epithelium, Hyperplasia		1																							**2 2.0**
Mediastinum, Inflammation, Granulomatous														4											**1 4.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Fungus							X																		**2 2.0**
Inflammation, Acute							2																		**2 2.0**
Squamous Epithelium, Cyst							2																		**1 2.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Inflammation, Acute							1																		**1 1.0**
SPECIAL SENSES SYSTEM																									
Eye	+	+	+	+	+	+	A	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	**46**
Retina, Atrophy		2				2																			**6 2.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Hyperplasia, Focal	1																								**1 1.0**

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WISTAR HAN RATS MALE

0 MG/KG

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ANIMAL ID	00033	00034	00035	00036	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00049	00050	00051	00052	00053	00055	00056	00057	00058	00059	*** TOTALS**
URINARY SYSTEM																									
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Cyst																									**1**
Hydronephrosis																									**1 3.0**
Inflammation, Chronic Active																									**1 1.0**
Nephropathy	1	2	1		1		1	1	2	1							1	1	1		3				**37 1.2**
Pelvis, Inflammation, Chronic Active		1	1	1				1		1						2	2			3	2				**22 1.4**
Pelvis, Mineralization		1	2				2	1							1					2				2	**18 1.3**
Renal Tubule, Hyperplasia												2													**1 2.0**
Ureter																									**1**
Cyst																									**1 1.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**

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DAY ON TEST	0730	0682	0730	0645	0731	0731	0658	0730	0730	0732	0732	0507	0731	0731	0731	0732	0732	0732	0730	0730	0730	0731	0585	0731	0465	
WISTAR HAN RATS MALE																										
3 MG/KG																										
ANIMAL ID	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	**males (cont...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperkeratosis																										
Muscularis, Degeneration																										
Muscularis, Hemorrhage																										
Intestine Large, Cecum	+	+	+	A	+	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																										
Intestine Large, Colon	+	+	+	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																										
Intestine Large, Rectum	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	A	+	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	A	+	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ulcer																										
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Basophilic Focus						X					X									X						
Basophilic Focus, Multiple	X		X							X			X	X	X		X	X	X							
Clear Cell Focus																										
Clear Cell Focus, Multiple	X		X		X	X		X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X		
Congestion							1																			
Eosinophilic Focus									X				X													
Eosinophilic Focus, Multiple																		X								

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WISTAR HAN RATS MALE

3 MG/KG

DAY ON TEST	0730	0682	0730	0645	0731	0731	0658	0730	0730	0732	0732	0507	0731	0731	0731	0732	0732	0732	0730	0730	0730	0731	0585	0731	0465	
ANIMAL ID	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	**males (cont...)**
Fatty Change		4		2	1	1	1	2	1	2	1	1	1	1	2	2	1	1	1	2	1	2		1		
Hepatodiaphragmatic Nodule																										
Inflammation, Chronic									1																	
Mixed Cell Focus								X											X							
Mixed Cell Focus, Multiple																										
Bile Duct, Hyperplasia	1					1			1		1		1			1			1		1	1				
Hepatocyte, Hypertrophy	3	2	2	2	2	2 3	2	2	2	2	2	2	2	2	2	1 1	2	2	3 1	3	2	2	2	2	2	
Hepatocyte, Necrosis						3													1							
Mesentery			+																					+		
Hemorrhage																										
Fat, Necrosis			2																					1		
Pancreas	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																1						1	1			
Hyperplasia																										
Inflammation, Acute																										
Duct, Cyst																4										
Salivary Glands	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	
Duct, Parotid Gland, Cyst																										
Duct, Parotid Gland, Inflammation, Acute							1																			
Parotid Gland, Atrophy																										
Parotid Gland, Inflammation, Chronic																							1			
Parotid Gland, Vacuolization Cytoplasmic		2																								
Submandibular Gland, Inflammation, Chronic																										
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema		2																								
Erosion																										

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WISTAR HAN RATS MALE

3 MG/KG

DAY ON TEST	0730	0682	0730	0645	0731	0731	0658	0730	0730	0732	0732	0507	0731	0731	0731	0732	0732	0732	0730	0730	0730	0731	0585	0731	0465	
ANIMAL ID	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	**males (cont...)**
Hyperkeratosis		2		1			1																			
Inflammation, Acute																		1								
Inflammation, Chronic																										
Inflammation, Chronic Active		3																								
Ulcer		3																								
Epithelium, Hyperplasia		3					1											2			2					
Stomach, Glandular	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrosis																										
Inflammation, Multifocal, Chronic																										
Mineralization											1										1					
Tongue												+														
Infiltration Cellular												2														
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+					+																				
Angiectasis						2																				
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1	2			1	2	2		1	2	2	2	2	2	1	1	2	1	1	1		1	2	1		
Endocardium, Hyperplasia																										
Pericardium, Necrosis								3																		
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis	1	1					1	1	1				1			1	1		1	1				1		
Hyperplasia, Focal	2					1					1			1												
Hypertrophy, Focal	1	1								1			2			1	1		1		1					

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DAY ON TEST	0730	0682	0730	0645	0731	0731	0658	0730	0730	0732	0732	0507	0731	0731	0731	0732	0732	0732	0730	0730	0730	0731	0585	0731	0465	
WISTAR HAN RATS MALE																										
3 MG/KG																										
ANIMAL ID	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	**males (cont...)**
Vacuolization Cytoplasmic									1							1		1								
Adrenal Medulla	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Eosinophil																										
Islets, Pancreatic	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	
Cyst																										
Hyperplasia, Focal			3																							
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Cyst											X									X						
Pars Distalis, Hyperplasia, Focal									1				2													
Thyroid Gland	+	+	+	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																										
C-cell, Hyperplasia	1	1	3		1	2	1	2	3	1			2	3	1	2	2	2	1	2	1	1	2	2		
Follicle, Hypertrophy			2		1	1			1		1			1	1	1		2	1	1	1			1	1	
Follicular Cell, Hyperplasia							2			1																
GENERAL BODY SYSTEM																										
Tissue NOS								+																	+	
Fat, Necrosis								2																		
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Bilateral, Granuloma Sperm																										

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WISTAR HAN RATS MALE

3 MG/KG

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ANIMAL ID	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	**males (cont...)**
Preputial Gland	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																										
Inflammation, Chronic Active			1						1																	
Duct, Ectasia																			1							
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active	1		1	1	1		2							3					1		1	2				
Epithelium, Hyperplasia																										
Seminal Vesicle	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute									2																	
Inflammation, Chronic Active																										
Testes	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration			2		2											2						3				
Interstitial Cell, Hyperplasia, Multifocal																										
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																		2								
Lymph Node																									+	
Ectasia																										
Mediastinal, Congestion																										
Mediastinal, Hemorrhage																									2	
Mediastinal, Pigmentation, Hemosiderin																									2	
Renal, Ectasia																										
Lymph Node, Mandibular	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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WISTAR HAN RATS MALE																										
3 MG/KG																										
ANIMAL ID	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	**males (cont...)**
Angiectasis																		1								
Ectasia									1		1								2							
Hemorrhage																										
Lymph Node, Mesenteric	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia																			3							
Hemorrhage												2														
Spleen	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation	1		1			1			1	1	1	1		1	1	1	1	1	1	1			2		2	
Pigmentation		1	1		1		2											1			1					
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy		1		3		2	2																		4	
Hemorrhage												2														
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	I	M	M	+	+	+	+	M	M	+	
Galactocele																										
Pigmentation, Hemosiderin				1	1																	1			1	
Duct, Dilatation			1																							
Skin	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion																										
Fibrosis																										
Hyperkeratosis		2																								
Inflammation, Acute																										
Inflammation, Chronic Active		3																								
Ulcer		3																								

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DAY ON TEST / WISTAR HAN RATS MALE / 3 MG/KG / ANIMAL ID	0730 00061	0682 00062	0730 00063	0645 00064	0731 00065	0731 00066	0658 00067	0730 00068	0730 00069	0732 00070	0732 00071	0507 00072	0731 00073	0731 00074	0731 00075	0732 00076	0732 00077	0732 00078	0730 00079	0730 00080	0730 00081	0731 00082	0585 00083	0731 00084	0465 00085	males (cont...)
Epidermis, Hyperplasia		1																							
MUSCULOSKELETAL SYSTEM																									
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skeletal Muscle																									
NERVOUS SYSTEM																									
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Compression	1	3	1	1			1																		
Peripheral Nerve																									
Spinal Cord																									
RESPIRATORY SYSTEM																									
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Infiltration Cellular, Histiocyte					1	1			1	1	1	1			1	1		1	1	1	1		1		
Inflammation, Acute																									
Alveolar Epithelium, Hyperplasia											1							1							
Vein, Mineralization									1																
Nose	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Trachea	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
SPECIAL SENSES SYSTEM																									
Eye	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

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DAY ON TEST	0730	0682	0730	0645	0731	0731	0658	0730	0730	0732	0732	0507	0731	0731	0731	0732	0732	0732	0730	0730	0730	0731	0585	0731	0465	
WISTAR HAN RATS MALE																										
3 MG/KG																										
ANIMAL ID	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	00076	00077	00078	00079	00080	00081	00082	00083	00084	00085	**males (cont...)**
Retina, Atrophy						1		2			2								2							
Harderian Gland	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
URINARY SYSTEM																										
Kidney	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hydronephrosis	1																							1		
Nephropathy	1		2		1	1	1	1	1				1	1	1	1	1	1		2	1	1	1	1	1	
Pelvis, Inflammation, Chronic Active		2	1		1				2				1	1			1			1	1		1			
Pelvis, Mineralization		1	1								1						1		1							
Transitional Epithelium, Hyperplasia														2												
Urinary Bladder	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic														2												
Transitional Epithelium, Hyperplasia														4												

WISTAR HAN RATS MALE

3 MG/KG

DAY ON TEST	0731	0485	0730	0730	0730	0592	0301	0732	0729	0549	0729	0729	0702	0729	0730	0730	0003	0730	0730	0260	0731	0731	0588	0647	0730	
ANIMAL ID	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100	00101	00102	00103	00104	00105	00106	00107	00108	00109	00110	*** TOTALS**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperkeratosis							2																			**1 2.0**
Muscularis, Degeneration																				2						**1 2.0**
Muscularis, Hemorrhage																				2						**1 2.0**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	A	A	+	**43**
Inflammation, Chronic										2																**1 2.0**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	A	+	+	**45**
Inflammation, Chronic										1																**1 1.0**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	A	+	**46**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	**45**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	A	+	+	A	+	+	**43**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	M	+	+	A	+	+	A	+	+	**44**
Ulcer										2																**1 2.0**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Basophilic Focus																									X	**4**
Basophilic Focus, Multiple	X								X			X			X			X	X		X	X				**17**
Clear Cell Focus														X												**1**
Clear Cell Focus, Multiple	X		X	X	X	X		X	X		X	X			X	X		X	X		X	X			X	**36**
Congestion					1																			1		**3 1.0**
Eosinophilic Focus																										**2**
Eosinophilic Focus, Multiple																										**1**

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WISTAR HAN RATS MALE

3 MG/KG

DAY ON TEST	0731	0485	0730	0730	0730	0592	0301	0732	0729	0549	0729	0729	0702	0729	0730	0730	0003	0730	0730	0260	0731	0731	0588	0647	0730	
ANIMAL ID	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100	00101	00102	00103	00104	00105	00106	00107	00108	00109	00110	*** TOTALS**
Fatty Change	1	4	1		1	2	3	2	1		1	1	1			1			1		1	1		1		**37 1.5**
Hepatodiaphragmatic Nodule				X																						**1**
Inflammation, Chronic																		1								**2 1.0**
Mixed Cell Focus																										**2**
Mixed Cell Focus, Multiple																X										**1**
Bile Duct, Hyperplasia					1		1								1				1		1	1			1	**16 1.0**
Hepatocyte, Hypertrophy	2	2	2	2	2	2	2	2	2		2	2		2	2	1		1	2		2	1			2	**44 2.0**
Hepatocyte, Necrosis																										**2 2.0**
Mesentery		+		+																+	+					**6**
Hemorrhage																				2						**1 2.0**
Fat, Necrosis		2		2																	1					**5 1.6**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	**47**
Atrophy										1									1							**5 1.0**
Hyperplasia																									1	**1 1.0**
Inflammation, Acute										1																**1 1.0**
Duct, Cyst																										**1 4.0**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**
Duct, Parotid Gland, Cyst							2																			**1 2.0**
Duct, Parotid Gland, Inflammation, Acute																										**1 1.0**
Parotid Gland, Atrophy			1																					1		**2 1.0**
Parotid Gland, Inflammation, Chronic																										**1 1.0**
Parotid Gland, Vacuolization Cytoplasmic		4					1			1																**4 2.0**
Submandibular Gland, Inflammation, Chronic			1																							**1 1.0**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Edema																										**1 2.0**
Erosion		1																								**1 1.0**

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WISTAR HAN RATS MALE

3 MG/KG

DAY ON TEST	0731	0485	0730	0730	0730	0592	0301	0732	0729	0549	0729	0729	0702	0729	0730	0730	0003	0730	0730	0260	0731	0731	0588	0647	0730	
ANIMAL ID	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100	00101	00102	00103	00104	00105	00106	00107	00108	00109	00110	*** TOTALS**
Hyperkeratosis		3					2																			**5 1.8**
Inflammation, Acute							1																			**2 1.0**
Inflammation, Chronic										1																**1 1.0**
Inflammation, Chronic Active		1																								**2 2.0**
Ulcer																										**1 3.0**
Epithelium, Hyperplasia		3					1																			**6 2.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	A	+	+	**46**
Fibrosis										2																**1 2.0**
Inflammation, Multifocal, Chronic										2																**1 2.0**
Mineralization																					1					**3 1.0**
Tongue																										**1**
Infiltration Cellular																										**1 2.0**

CARDIOVASCULAR SYSTEM

Blood Vessel																										**2**
Angiectasis																										**1 2.0**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cardiomyopathy		1		2	2		1	1				2	1	1	1	1		1			1					**32 1.4**
Endocardium, Hyperplasia																									2	**1 2.0**
Pericardium, Necrosis																										**1 3.0**

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Angiectasis				1			3	1	1						1									1		**17 1.1**
Hyperplasia, Focal	1			1							1					2					1	1				**10 1.2**
Hypertrophy, Focal	1			1																				1		**11 1.1**

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WISTAR HAN RATS MALE

3 MG/KG

DAY ON TEST / ANIMAL ID	0731 00086	0485 00087	0730 00088	0730 00089	0730 00090	0592 00091	0301 00092	0732 00093	0729 00094	0549 00095	0729 00096	0729 00097	0702 00098	0729 00099	0730 00100	0730 00101	0003 00102	0730 00103	0730 00104	0260 00105	0731 00106	0731 00107	0588 00108	0647 00109	0730 00110	* TOTALS	
Vacuolization Cytoplasmic	1						3		1	1			1												1	**9**	**1.2**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	**48**	
Infiltration Cellular, Eosinophil										3																**1**	**3.0**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Cyst					1																1					**2**	**1.0**
Hyperplasia, Focal																										**1**	**3.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Pars Distalis, Cyst										X																**3**	
Pars Distalis, Hyperplasia, Focal	1								1	1	1					1			1		1	1			1	**11**	**1.1**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	A	+	+	**45**	
Cyst							X																			**1**	
C-cell, Hyperplasia	2	1	2	2	2	1		2	2	1	1	2		3	1	2		2	1		2	3		1	2	**41**	**1.7**
Follicle, Hypertrophy	2		2	2	1	2			1		2				1			3	1			1			1	**26**	**1.3**
Follicular Cell, Hyperplasia				2				2	1																	**5**	**1.6**
GENERAL BODY SYSTEM																											
Tissue NOS																							+			**3**	
Fat, Necrosis																										**1**	**2.0**
GENITAL SYSTEM																											
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Bilateral, Granuloma Sperm										2																**1**	**2.0**

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

WISTAR HAN RATS MALE

3 MG/KG

DAY ON TEST	0731	0485	0730	0730	0730	0592	0301	0732	0729	0549	0729	0729	0702	0729	0730	0730	0003	0730	0730	0260	0731	0731	0588	0647	0730	
ANIMAL ID	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100	00101	00102	00103	00104	00105	00106	00107	00108	00109	00110	*** TOTALS**
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Inflammation, Chronic										1											1					**2 1.0**
Inflammation, Chronic Active													3				1									**4 1.5**
Duct, Ectasia										2																**2 1.5**
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active		1		1					1	1			1	1	2			1				1		1	1	**20 1.3**
Epithelium, Hyperplasia														1												**1 1.0**
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	M	+	+	+	+	+	A	+	+	**46**
Inflammation, Acute																										**1 2.0**
Inflammation, Chronic Active									2																	**1 2.0**
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Degeneration			4		2			4	3	4								3			2					**11 2.8**
Interstitial Cell, Hyperplasia, Multifocal									1																	**1 1.0**
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	**48**
Hyperplasia																										**1 2.0**
Lymph Node										+			+		+			+					+			**6**
Ectasia																		2								**1 2.0**
Mediastinal, Congestion													3													**1 3.0**
Mediastinal, Hemorrhage															1											**2 1.5**
Mediastinal, Pigmentation, Hemosiderin																										**1 2.0**
Renal, Ectasia																		3								**1 3.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**

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WISTAR HAN RATS MALE

3 MG/KG

DAY ON TEST	0731	0485	0730	0730	0730	0592	0301	0732	0729	0549	0729	0729	0702	0729	0730	0730	0003	0730	0730	0260	0731	0731	0588	0647	0730	
ANIMAL ID	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100	00101	00102	00103	00104	00105	00106	00107	00108	00109	00110	* TOTALS
Angiectasis																										1 1.0
Ectasia																1		2				1			2	7 1.4
Hemorrhage				2																						1 2.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Ectasia																		2								2 2.5
Hemorrhage																										1 2.0
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	A	+	+	46
Hematopoietic Cell Proliferation			2	1	1	2		1	1	1		1		2	1	1		1	1					2		30 1.2
Pigmentation		1				1	1							1								1				11 1.1
Thymus	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Atrophy		1					3			4			3	2									2			11 2.5
Hemorrhage																		2					3			3 2.3
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	M	+	+	+	+	+	M	+	+	+	M	+	+	+	M	+	+	M	+	+	M	+	+	+	38
Galactocele	2																									1 2.0
Pigmentation, Hemosiderin				1						1			1										1	1		9 1.0
Duct, Dilatation																										1 1.0
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Cyst Epithelial Inclusion				X							X								X							3
Fibrosis														2												1 2.0
Hyperkeratosis															2									2		3 2.0
Inflammation, Acute							1																			1 1.0
Inflammation, Chronic Active															3									1		3 2.3
Ulcer															2											2 2.5

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DAY ON TEST / WISTAR HAN RATS MALE / 3 MG/KG / ANIMAL ID	0731 00086	0485 00087	0730 00088	0730 00089	0730 00090	0592 00091	0301 00092	0732 00093	0729 00094	0549 00095	0729 00096	0729 00097	0702 00098	0729 00099	0730 00100	0730 00101	0003 00102	0730 00103	0730 00104	0260 00105	0731 00106	0731 00107	0588 00108	0647 00109	0730 00110	* TOTALS	
Epidermis, Hyperplasia														2	2									3		**4**	**2.0**
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Skeletal Muscle																	+					+				**2**	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Compression		2		1			2																	2		**9**	**1.6**
Peripheral Nerve		+																								**1**	
Spinal Cord		+																								**1**	
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infiltration Cellular, Histiocyte	1			1	1	1	1		1		1	1		1				1						1		**24**	**1.0**
Inflammation, Acute																	1									**1**	**1.0**
Alveolar Epithelium, Hyperplasia														1												**3**	**1.0**
Vein, Mineralization																										**1**	**1.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	A	+	+	**46**	
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	A	+	+	**46**	

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WISTAR HAN RATS MALE

3 MG/KG

DAY ON TEST	0731	0485	0730	0730	0730	0592	0301	0732	0729	0549	0729	0729	0702	0729	0730	0730	0003	0730	0730	0260	0731	0731	0588	0647	0730	
ANIMAL ID	00086	00087	00088	00089	00090	00091	00092	00093	00094	00095	00096	00097	00098	00099	00100	00101	00102	00103	00104	00105	00106	00107	00108	00109	00110	*** TOTALS**
Retina, Atrophy								2			2								2						2	**8 1.9**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	A	+	+	**46**
Hydronephrosis			1				3							1												**5 1.4**
Nephropathy	1		1	3	1	1	1	1	1						1	1		2	2		1	2		3	1	**35 1.3**
Pelvis, Inflammation, Chronic Active	1		1		1										2											**14 1.2**
Pelvis, Mineralization																										**5 1.0**
Transitional Epithelium, Hyperplasia																										**1 2.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	**48**
Inflammation, Chronic																										**1 2.0**
Transitional Epithelium, Hyperplasia																										**1 4.0**

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DAY ON TEST	059	073	073	073	073	059	073	073	060	073	073	073	073	073	073	073	066	073	055	048	073	073	073	073	073	072	
WISTAR HAN RATS MALE																											
15 MG/KG																											
ANIMAL ID	001 11	001 12	001 13	001 14	001 15	001 16	001 17	001 18	001 19	001 20	001 21	001 22	001 23	001 24	001 25	001 26	001 27	001 28	001 29	001 30	001 31	001 32	001 33	001 34	001 35	**males (cont...)**	
ALIMENTARY SYSTEM																											
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+		
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+		
Inflammation, Focal, Chronic Active																											
Peyer's Patch, Hyperplasia							2																				
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Peyer's Patch, Hyperplasia							1																				
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Angiectasis																											
Basophilic Focus	X																								X		
Basophilic Focus, Multiple					X						X												X				
Cholangiofibrosis						2																					
Clear Cell Focus, Multiple			X	X	X		X	X		X	X	X	X		X		X				X	X	X	X	X	X	
Degeneration, Cystic											1																
Eosinophilic Focus											X				X	X			X				X				
Eosinophilic Focus, Multiple																											
Fatty Change	3	2	2	2	2	3	1	2		2	1	1	1	1	1	2	2	3	3	3	2	2	2	3	2		
Hematopoietic Cell Proliferation																											

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WISTAR HAN RATS MALE

15 MG/KG

DAY ON TEST	059	073	073	073	073	059	073	073	060	073	073	073	073	073	073	073	069	073	055	048	073	073	073	073	073	072	
ANIMAL ID	00111	00112	00113	00114	00115	00116	00117	00118	00119	00120	00121	00122	00123	00124	00125	00126	00127	00128	00129	00130	00131	00132	00133	00134	00135	**males (cont...)**
Hemorrhage																										
Hyperplasia, Nodular				2		2																				
Mixed Cell Focus, Multiple																										
Pigmentation																		2								
Artery, Degeneration																						1				
Bile Duct, Hyperplasia				1						1	1	1		1	1	1	1				1	1			1	
Hepatocyte, Hypertrophy	2	4	3	4	3	4	3	3	2	3	3	3	3	3	3	3	3	3	2	3	3	3	4	3	4	
Hepatocyte, Necrosis														1												
Oval Cell, Hyperplasia				1						1																
Mesentery	+	+	+	+	+		+					+	+		+	+										
Inflammation, Chronic																2										
Fat, Necrosis	3		2	1	2		1					2	2		1											
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	1		1							1																
Basophilic Focus																							1			
Hyperplasia											1															
Duct, Cyst, Multiple																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Duct, Parotid Gland, Cyst								1													2					
Parotid Gland, Atrophy						1												2								
Parotid Gland, Inflammation, Chronic		1																								
Parotid Gland, Vacuolization Cytoplasmic					1	3			1									2	2							
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperkeratosis						2			1									2								
Inflammation, Acute																		1								
Inflammation, Chronic									2																	

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DAY ON TEST	059	073	073	073	073	059	073	073	060	073	073	073	073	073	073	073	066	073	055	048	073	073	073	073	072	
WISTAR HAN RATS MALE	5	0	0	1	1	2	0	0	2	2	2	2	1	1	1	1	9	0	3	0	1	1	1	1	9	
15 MG/KG	00111	00112	00113	00114	00115	00116	00117	00118	00119	00120	00121	00122	00123	00124	00125	00126	00127	00128	00129	00130	00131	00132	00133	00134	00135	**males (cont...)**
ANIMAL ID																										
Inflammation, Chronic Active						2																				
Ulcer						2												1								
Epithelium, Hyperplasia						3			3									2								
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																										
Inflammation, Acute																										
Mineralization													1								1					
CARDIOVASCULAR SYSTEM																										
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	1	1		1	2		2	1	2	1	1	1	2	1				1	1	2			1	1		
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis		3	1				1		1				1	1	1		1									
Hyperplasia, Focal			1	1		1							2							1	2			1		
Hypertrophy, Focal					1					1	1						1								1	
Vacuolization Cytoplasmic					1	1				1						1					1				2	
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal																				1						
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Cyst																							X			

DAY ON TEST	059	073	073	073	073	059	073	073	060	073	073	073	073	073	073	073	066	073	055	048	073	073	073	073	072	
WISTAR HAN RATS MALE	5	0	0	1	1	2	0	0	2	2	2	2	1	1	1	1	9	0	3	0	1	1	1	1	9	
15 MG/KG ANIMAL ID	001 11	001 12	001 13	001 14	001 15	001 16	001 17	001 18	001 19	001 20	001 21	001 22	001 23	001 24	001 25	001 26	001 27	001 28	001 29	001 30	001 31	001 32	001 33	001 34	001 35	**males (cont...)**
Pars Distalis, Cyst, Multiple																										
Pars Distalis, Hyperplasia, Focal							2			1		1	1							1		1	1			
Pars Intermedia, Cyst							X																			
Pars Intermedia, Hyperplasia, Focal																										
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	
Mineralization																										
C-cell, Hyperplasia	1	3	2	2	1	2	2	2	2	2	2	2	1	2	3	2	2	1		2	2	1		2	3	
Follicle, Hypertrophy		1		1	1	2			1				1	1	1	2	1			1	1	1	1	1	1	
Follicular Cell, Hyperplasia												1		2												
GENERAL BODY SYSTEM																										
Tissue NOS						+																				
Fibrosis						2																				
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active															1							4				
Duct, Ectasia									2											2						
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active			1	1	1	2	1	1	1		1	1				1	2	1				1	1			
Mineralization		1																								
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																										

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DAY ON TEST	0595	0730	0730	0731	0731	0592	0730	0730	0602	0732	0732	0732	0731	0731	0731	0669	0730	0553	0480	0731	0731	0731	0731	0731	0729	
WISTAR HAN RATS MALE																										
15 MG/KG																										
ANIMAL ID	00111	00112	00113	00114	00115	00116	00117	00118	00119	00120	00121	00122	00123	00124	00125	00126	00127	00128	00129	00130	00131	00132	00133	00134	00135	**males (cont...)**
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration		3	2		2			4		3				2	4					4						
Inflammation, Acute																			1							
Mineralization															1											
Interstitial Cell, Hyperplasia, Focal																										
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node		+																								
Mediastinal, Ectasia																										
Mediastinal, Hemorrhage																										
Mediastinal, Pigmentation, Hemosiderin																										
Pancreatic, Ectasia																										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia					1	2	1			2			1									1				
Hemorrhage													2										2			
Hyperplasia, Plasma Cell																	2									
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia		1																			2					
Hemorrhage																							2			
Pigmentation, Hemosiderin																		1								
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accessory Spleen																										
Fibrosis, Focal																										
Hematopoietic Cell Proliferation				1			1			1		1	1												1	

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X .. Lesion present
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BLANK .. Not examined microscopically
1-4 .. Lesion qualified as:
1) Minimal 3) Moderate
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WISTAR HAN RATS MALE

15 MG/KG

DAY ON TEST	0595	0730	0730	0731	0731	0592	0730	0730	0602	0732	0732	0732	0731	0731	0731	0669	0730	0553	0480	0731	0731	0731	0731	0729	**males (cont...)**
ANIMAL ID	00111	00112	00113	00114	00115	00116	00117	00118	00119	00120	00121	00122	00123	00124	00125	00126	00127	00128	00129	00130	00131	00132	00133	00134	00135	
Pigmentation						1			1			1	1	1	2			1	1	1					1	
Lymphoid Follicle, Atrophy																		2								
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy					1	4	2		2	1				1		1		4			1		2			
Ectopic Parathyroid Gland									1							1										
Hemorrhage												1														
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	M	M	+	M	M	+	+	+	+	+	
Cyst																										
Hyperplasia							1																			
Pigmentation, Hemosiderin																		2								
Duct, Dilatation															2											
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst Epithelial Inclusion												2														
Inflammation, Granulomatous				3																						
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle	+					+			+																	
Fibrosis																										
Inflammation, Chronic Active						2																				
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	05 95	07 30	07 30	07 31	07 31	05 92	07 30	07 30	06 02	07 32	07 32	07 32	07 31	07 31	07 31	06 69	07 30	05 53	04 80	07 31	07 31	07 31	07 31	07 31	07 29	
WISTAR HAN RATS MALE																										
15 MG/KG																										
ANIMAL ID	00 11 1	00 11 2	00 11 3	00 11 4	00 11 5	00 11 6	00 11 7	00 11 8	00 11 9	00 12 0	00 12 1	00 12 2	00 12 3	00 12 4	00 12 5	00 12 6	00 12 7	00 12 8	00 12 9	00 13 0	00 13 1	00 13 2	00 13 3	00 13 4	00 13 5	**males (cont...)**
Compression						3			3					3	3			3								
Meninges, Hyperplasia, Granulocytic																										
Peripheral Nerve	+								+																	
Spinal Cord	+								+																	
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hemorrhage																										
Infiltration Cellular, Histiocyte	1	1	1		1			1	1	1	1	1	1	1	1	1	1	1		1		1	1	1		
Mineralization																										
Alveolar Epithelium, Hyperplasia				1																						
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fungus																				2						
Inflammation, Acute																				2						
Inflammation, Chronic Active																										
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Retina, Atrophy						2		2					2			2				2	2					
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Lacrimal Gland																										

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DAY ON TEST	059	073	073	073	073	059	073	073	060	073	073	073	073	073	073	073	066	073	055	048	073	073	073	073	073	072	
WISTAR HAN RATS MALE																											
15 MG/KG																											
ANIMAL ID	001 11	001 12	001 13	001 14	001 15	001 16	001 17	001 18	001 19	001 20	001 21	001 22	001 23	001 24	001 25	001 26	001 27	001 28	001 29	001 30	001 31	001 32	001 33	001 34	001 35	**males (cont...)**	
Inflammation, Chronic																											
Karyomegaly																											
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Bacterium																											
Cyst									X	X																	
Cyst, Multiple																											
Hydronephrosis									3	3							3										
Inflammation, Acute																											
Nephropathy	1	1		1	1		1		1		1	2	1		2		1	1		2	1		1		1		
Pelvis, Inflammation, Chronic Active	1					1		2			2			2						1							
Pelvis, Mineralization																				1							
Renal Tubule, Dilatation																		2									
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Ulcer																											
Transitional Epithelium, Hyperplasia																											

DAY ON TEST	0729	0729	0729	0729	0729	0732	0553	0436	0289	0729	0729	0730	0730	0730	0731	0599	0731	0729	0729	0729	0731	0476	0617	0731	0731	
WISTAR HAN RATS MALE																										
15 MG/KG																										
ANIMAL ID	00136	00137	00138	00139	00140	00141	00142	00143	00144	00145	00146	00147	00148	00149	00150	00151	00152	00153	00154	00155	00156	00157	00158	00159	00160	*** TOTALS**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Inflammation, Focal, Chronic Active																		2								**1 2.0**
Peyer's Patch, Hyperplasia																										**1 2.0**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Peyer's Patch, Hyperplasia																										**1 1.0**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Angiectasis			1																							**1 1.0**
Basophilic Focus				X																						**3**
Basophilic Focus, Multiple	X		X		X																X				X	**8**
Cholangiofibrosis																										**1 2.0**
Clear Cell Focus, Multiple	X	X		X	X	X	X			X	X	X		X	X		X	X	X	X	X			X	X	**35**
Degeneration, Cystic																										**1 1.0**
Eosinophilic Focus													X	X					X		X				X	**10**
Eosinophilic Focus, Multiple						X				X																**2**
Fatty Change	1	2	1	2	1	1	1		1	1	1	1	2	2	2	4	1	2	1	1	1	2	4	2	1	**48 1.8**
Hematopoietic Cell Proliferation									1																	**1 1.0**

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WISTAR HAN RATS MALE

15 MG/KG

DAY ON TEST	0729	0729	0729	0729	0729	0732	0553	0436	0289	0729	0729	0730	0730	0730	0731	0599	0731	0729	0729	0729	0731	0476	0617	0731	0731	
ANIMAL ID	00136	00137	00138	00139	00140	00141	00142	00143	00144	00145	00146	00147	00148	00149	00150	00151	00152	00153	00154	00155	00156	00157	00158	00159	00160	*** TOTALS**
Hemorrhage							1																			**1 1.0**
Hyperplasia, Nodular																					1					**3 1.7**
Mixed Cell Focus, Multiple																	X									**1**
Pigmentation																										**1 2.0**
Artery, Degeneration																										**1 1.0**
Bile Duct, Hyperplasia	1			1						2									1		1					**16 1.1**
Hepatocyte, Hypertrophy	4	2	3	2	3	3	3	2	2	3	3	3	3	3	3	4	3	3	3	4	3	3	3	3	3	**50 3.0**
Hepatocyte, Necrosis																										**1 1.0**
Oval Cell, Hyperplasia																										**2 1.0**
Mesentery			+		+													+								**13**
Inflammation, Chronic																										**1 2.0**
Fat, Necrosis			2		2													2								**11 1.8**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy		1											1					1	1							**7 1.0**
Basophilic Focus																										**1 1.0**
Hyperplasia						1																				**2 1.0**
Duct, Cyst, Multiple													2								1					**2 1.5**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Duct, Parotid Gland, Cyst																										**2 1.5**
Parotid Gland, Atrophy													2										2			**4 1.8**
Parotid Gland, Inflammation, Chronic																										**1 1.0**
Parotid Gland, Vacuolization Cytoplasmic																2							2			**7 1.9**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperkeratosis																3							3			**5 2.2**
Inflammation, Acute																										**1 1.0**
Inflammation, Chronic																2										**2 2.0**

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DAY ON TEST / WISTAR HAN RATS MALE / 15 MG/KG / ANIMAL ID	0729 0013 6	0729 0013 7	0729 0013 8	0729 0013 9	0729 0014 0	0732 0014 1	0553 0014 2	0436 0014 3	0289 0014 4	0729 0014 5	0729 0014 6	0730 0014 7	0730 0014 8	0730 0014 9	0731 0015 0	0599 0015 1	0731 0015 2	0729 0015 3	0729 0015 4	0729 0015 5	0731 0015 6	0476 0015 7	0617 0015 8	0731 0015 9	0731 0016 0	* TOTALS	
Inflammation, Chronic Active																						2			**2**	**2.0**
Ulcer																						1			**3**	**1.3**
Epithelium, Hyperplasia																3						3			**5**	**2.8**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cyst					2											1									**1**	**2.0**
Inflammation, Acute																1									**1**	**1.0**
Mineralization										1	1				1										**5**	**1.0**
CARDIOVASCULAR SYSTEM																										
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cardiomyopathy	1	1	1	2	2		2			1		1	2	1	2		2	2		1		1	2	1		**34**	**1.4**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Angiectasis			2	1		1						1					1	2				1			**15**	**1.3**
Hyperplasia, Focal	1		1	2	1								1	1	1	1	1	1				1			**18**	**1.2**
Hypertrophy, Focal		1				1																			**7**	**1.0**
Vacuolization Cytoplasmic				1	1												1	1							**10**	**1.1**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia, Focal							1																		**2**	**1.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Pars Distalis, Cyst															X					X			X		**4**	

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WISTAR HAN RATS MALE

15 MG/KG

DAY ON TEST	0729	0729	0729	0729	0729	0732	0553	0436	0289	0729	0729	0730	0730	0730	0731	0599	0731	0729	0729	0729	0731	0476	0617	0731	0731	
ANIMAL ID	00136	00137	00138	00139	00140	00141	00142	00143	00144	00145	00146	00147	00148	00149	00150	00151	00152	00153	00154	00155	00156	00157	00158	00159	00160	*** TOTALS**
Pars Distalis, Cyst, Multiple																					X					**1**
Pars Distalis, Hyperplasia, Focal						1					1	1		1						1				1		**13 1.1**
Pars Intermedia, Cyst																										**1**
Pars Intermedia, Hyperplasia, Focal										1																**1 1.0**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	**48**
Mineralization																	1									**1 1.0**
C-cell, Hyperplasia	2	3	2	3	2	2	3	1	1	3	2	2	3	3	2	2	2	3	3	3	3		1	2	2	**47 2.1**
Follicle, Hypertrophy	1	1	1	1	1	1	1			1			1	1	1		1			1	3		2	1	1	**33 1.2**
Follicular Cell, Hyperplasia		1			1																		1			**5 1.2**
GENERAL BODY SYSTEM																										
Tissue NOS							+																			**2**
Fibrosis																										**1 2.0**
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active					1	1												1			1					**6 1.5**
Duct, Ectasia						2							2								3					**5 2.2**
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active	1		1		1			1		1	1	1	4			1	2		2				2	1	3	**28 1.4**
Mineralization																										**1 1.0**
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Chronic Active													3													**1 3.0**

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DAY ON TEST / WISTAR HAN RATS MALE / 15 MG/KG / ANIMAL ID	0729 0013 6	0729 0013 7	0729 0013 8	0729 0013 9	0729 0014 0	0732 0014 1	0553 0014 2	0436 0014 3	0289 0014 4	0729 0014 5	0729 0014 6	0730 0014 7	0730 0014 8	0730 0014 9	0731 0015 0	0599 0015 1	0731 0015 2	0729 0015 3	0729 0015 4	0729 0015 5	0731 0015 6	0476 0015 7	0617 0015 8	0731 0015 9	0731 0016 0	* TOTALS	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Degeneration										1				2				3			3					**12**	**2.8**
Inflammation, Acute																										**1**	**1.0**
Mineralization																										**1**	**1.0**
Interstitial Cell, Hyperplasia, Focal										1																**1**	**1.0**
HEMATOPOIETIC SYSTEM																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node	+								+	+			+													5	
Mediastinal, Ectasia	3									2																**2**	**2.5**
Mediastinal, Hemorrhage										1																**1**	**1.0**
Mediastinal, Pigmentation, Hemosiderin										1																**1**	**1.0**
Pancreatic, Ectasia													1													**1**	**1.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ectasia			1									1														**8**	**1.3**
Hemorrhage																										**2**	**2.0**
Hyperplasia, Plasma Cell																										**1**	**2.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ectasia																										**2**	**1.5**
Hemorrhage																										**1**	**2.0**
Pigmentation, Hemosiderin																									2	**2**	**1.5**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Accessory Spleen															1											**1**	**1.0**
Fibrosis, Focal																					2					**1**	**2.0**
Hematopoietic Cell Proliferation	1	1			1	1	2		4	1	1	1	1	1	2		1		1		1				1	**22**	**1.2**

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1) Minimal 3) Moderate
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DAY ON TEST	0729	0729	0729	0729	0729	0732	0553	0436	0289	0729	0729	0730	0730	0730	0731	0599	0731	0729	0729	0729	0731	0476	0617	0731	0731	
WISTAR HAN RATS MALE																										
15 MG/KG																										
ANIMAL ID	00136	00137	00138	00139	00140	00141	00142	00143	00144	00145	00146	00147	00148	00149	00150	00151	00152	00153	00154	00155	00156	00157	00158	00159	00160	*** TOTALS**
Pigmentation			1					1				1	1			2			1				1			**17 1.1**
Lymphoid Follicle, Atrophy																										**1 2.0**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	**49**
Atrophy						2					1		2			3					1					**15 1.9**
Ectopic Parathyroid Gland																									1	**3 1.0**
Hemorrhage																										**1 1.0**
INTEGUMENTARY SYSTEM																										
Mammary Gland	M	M	+	+	+	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	**39**
Cyst																1										**1 1.0**
Hyperplasia																		2	1							**3 1.3**
Pigmentation, Hemosiderin																1										**2 1.5**
Duct, Dilatation																										**1 2.0**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cyst Epithelial Inclusion																										**1 2.0**
Inflammation, Granulomatous																										**1 3.0**
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Skeletal Muscle														+												**4**
Fibrosis														1												**1 1.0**
Inflammation, Chronic Active																										**1 2.0**
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**

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WISTAR HAN RATS MALE

15 MG/KG

DAY ON TEST	0729	0729	0729	0729	0729	0732	0553	0436	0289	0729	0729	0730	0730	0730	0731	0599	0731	0729	0729	0729	0731	0476	0617	0731	0731		
ANIMAL ID	00136	00137	00138	00139	00140	00141	00142	00143	00144	00145	00146	00147	00148	00149	00150	00151	00152	00153	00154	00155	00156	00157	00158	00159	00160	*** TOTALS**	
Compression				1				2				2				3							3			**10**	**2.6**
Meninges, Hyperplasia, Granulocytic		2																								**1**	**2.0**
Peripheral Nerve								+																		**3**	
Spinal Cord								+																		**3**	
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hemorrhage																						2				**1**	**2.0**
Infiltration Cellular, Histiocyte	1	1		1	1						1	1	1			1		1			1		1	1	1	**32**	**1.0**
Mineralization																	1								1	**2**	**1.0**
Alveolar Epithelium, Hyperplasia																										**1**	**1.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Fungus																										**1**	**2.0**
Inflammation, Acute															2											**2**	**2.0**
Inflammation, Chronic Active							1																			**1**	**1.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Retina, Atrophy																			2		2					**8**	**2.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Atrophy	1																									**1**	**1.0**
Lacrimal Gland						+																				**1**	

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DAY ON TEST / WISTAR HAN RATS MALE / 15 MG/KG / ANIMAL ID	0729 0013 6	0729 0013 7	0729 0013 8	0729 0013 9	0729 0014 0	0732 0014 1	0553 0014 2	0436 0014 3	0289 0014 4	0729 0014 5	0729 0014 6	0730 0014 7	0730 0014 8	0730 0014 9	0731 0015 0	0599 0015 1	0731 0015 2	0729 0015 3	0729 0015 4	0729 0015 5	0731 0015 6	0476 0015 7	0617 0015 8	0731 0015 9	0731 0016 0	* TOTALS	
Inflammation, Chronic						1																			**1**	**1.0**
Karyomegaly						2																			**1**	**2.0**
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Bacterium													2												**1**	**2.0**
Cyst																				X					**3**	
Cyst, Multiple							X																		**1**	
Hydronephrosis				3		3			3				2		3										**8**	**2.9**
Inflammation, Acute													3												**1**	**3.0**
Nephropathy	1	3		2	1	1				2		2			1		1	1	1	2	2	1		1	1	**32**	**1.3**
Pelvis, Inflammation, Chronic Active											2			1											**8**	**1.5**
Pelvis, Mineralization		1										1									1		1		**5**	**1.0**
Renal Tubule, Dilatation																									**1**	**2.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Ulcer													4												**1**	**4.0**
Transitional Epithelium, Hyperplasia													2												**1**	**2.0**

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DAY ON TEST	0480	0730	0730	0730	0731	0505	0666	0458	0609	0729	0729	0729	0729	0729	0729	0585	0424	0729	0729	0698	0658	0669	0729	0619	0732	0732	
WISTAR HAN RATS MALE																											
50 MG/KG																											
ANIMAL ID	00161	00163	00164	00166	00167	00168	00169	00170	00171	00172	00173	00174	00176	00177	00178	00179	00180	00181	00182	00183	00184	00186	00187	00188	00190	**males (cont...)**	
ALIMENTARY SYSTEM																											
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation, Acute	3																										
Ulcer	3																										
Intestine Large, Cecum	A	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation, Acute												2							1								
Intestine Small, Duodenum	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation, Acute																											
Intestine Small, Ileum	A	+	+	+	+	A	A	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Small, Jejunum	A	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Angiectasis														1													
Basophilic Focus															X					X		X					
Basophilic Focus, Multiple											X	X					X										
Cholangiofibrosis				2																							
Clear Cell Focus																											
Clear Cell Focus, Multiple		X	X	X	X					X	X		X	X	X		X	X				X		X	X		
Congestion																											
Degeneration, Cystic																											
Eosinophilic Focus		X					X					X															

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WISTAR HAN RATS MALE

50 MG/KG

DAY ON TEST	0480	0730	0730	0730	0731	0505	0666	0458	0609	0729	0729	0729	0729	0729	0585	0424	0729	0729	0698	0658	0669	0729	0619	0732	0732	
ANIMAL ID	00161	00163	00164	00166	00167	00168	00169	00170	00171	00172	00173	00174	00176	00177	00178	00179	00180	00181	00182	00183	00184	00186	00187	00188	00190	**males (cont...)**
Eosinophilic Focus, Multiple				X	X	X							X										X			
Fatty Change	3	2	2	4	2	4	4	3	3		2	2	1	1	2	1	2	1	2	3	1	1	3	2	4	
Fibrosis																										
Hepatodiaphragmatic Nodule						X																				
Inflammation, Chronic																	1		1	1						
Mixed Cell Focus										X																
Mixed Cell Focus, Multiple																	X					X				
Pigmentation																			1				1		1	
Artery, Inflammation, Chronic																				2						
Bile Duct, Cyst							2																			
Bile Duct, Hyperplasia											1	2				2	2	1	1	1			1			
Hepatocyte, Hypertrophy	3	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	3	3	4	4	4	
Hepatocyte, Necrosis																1				2						
Oval Cell, Hyperplasia																				1			1			
Mesentery	+			+	+														+			+			+	
Hemorrhage	3																									
Fat, Necrosis				2	2														1			3			3	
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Basophilic Focus, Multiple											1															
Hyperplasia																										
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Duct, Parotid Gland, Inflammation, Acute							2								1					1						
Duct, Submandibular Gland, Inflammation, Acute																										
Parotid Gland, Atrophy							2			1		2			1				2	2	1	1	1			
Parotid Gland, Basophilic Focus																										
Parotid Gland, Vacuolization Cytoplasmic				2		2	2	2	1			1			1				1		2		2	1		

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WISTAR HAN RATS MALE																										
50 MG/KG																										
ANIMAL ID	00161	00163	00164	00166	00167	00168	00169	00170	00171	00172	00173	00174	00176	00177	00178	00179	00180	00181	00182	00183	00184	00186	00187	00188	00190	**males (cont...)**
Sublingual Gland, Atrophy																										
Sublingual Gland, Vacuolization Cytoplasmic								1																		
Submandibular Gland, Inflammation, Acute																			1							
Submandibular Gland, Vacuolization Cytoplasmic							2																			
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema						2																				
Hyperkeratosis						2		1	2						2						2	1	2			
Inflammation, Acute																			1	1						
Inflammation, Chronic						3		1																		
Inflammation, Chronic Active																					2					
Ulcer						3													1		2					
Epithelium, Hyperplasia						3		1	2						2						2	2	2			
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute															1											
Inflammation, Chronic						2																				
Mineralization														1												

CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy		1	1		1	1	2						2		1		1	1		1		2		1	1	
Inflammation, Acute																										
Necrosis, Multifocal																										
Pigmentation, Hemosiderin																										
Thrombosis																										
Epicardium, Inflammation, Chronic	1																									
Pericardium, Inflammation, Granulomatous																				2						

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WISTAR HAN RATS MALE																										
50 MG/KG																										
ANIMAL ID	00161	00163	00164	00166	00167	00168	00169	00170	00171	00172	00173	00174	00176	00177	00178	00179	00180	00181	00182	00183	00184	00186	00187	00188	00190	**males (cont...)**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accessory Adrenal Cortical Nodule						2																				
Angiectasis		1		1	1					1		1		1	1	1			1	1						
Hyperplasia, Focal			1		1					1		1	1	1			2	2			1		2	1	1	
Hypertrophy, Focal						1							1									1				
Necrosis, Focal																										
Vacuolization Cytoplasmic			1	1		1				1						1		3	1		1		1			
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																1										
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst			1																							
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Cyst													X											X		
Pars Distalis, Hyperplasia, Focal																		1				3		2	1	
Pars Nervosa, Inflammation, Chronic																										
Thyroid Gland	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia		2	2	2	1	1	1	2		1	3	3	2	3	1	1	3	2	2	2	2	2	1	2	2	
Follicle, Hypertrophy			2					1		1		1	2	1		1		1	2			1			2	
Follicular Cell, Hyperplasia							2							1					2	2						
GENERAL BODY SYSTEM																										
Tissue NOS																										

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WISTAR HAN RATS MALE																										
50 MG/KG																										
ANIMAL ID	00161	00163	00164	00166	00167	00168	00169	00170	00171	00172	00173	00174	00176	00177	00178	00179	00180	00181	00182	00183	00184	00186	00187	00188	00190	**males (cont...)**
Fibrosis																										
GENITAL SYSTEM																										
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																										
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic									1																	
Inflammation, Chronic Active				3																		3				
Duct, Ectasia	2	4	3		2										2			1				1				
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active				2	1	2		1	1	1		1				1			1		1		2			
Vacuolization Cytoplasmic																										
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia					2																					
Inflammation, Acute					1																					
Inflammation, Chronic Active																										
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																										
Degeneration		2		2	1													2						2		
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lymph Node							+			+										+		+				
Mediastinal, Ectasia																						1				

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WISTAR HAN RATS MALE																										
50 MG/KG																										
ANIMAL ID	00161	00163	00164	00166	00167	00168	00169	00170	00171	00172	00173	00174	00176	00177	00178	00179	00180	00181	00182	00183	00184	00186	00187	00188	00190	**males (cont...)**
Mediastinal, Hemorrhage																				2		2				
Mediastinal, Pigmentation, Hemosiderin																						2				
Pancreatic, Inflammation, Chronic																										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia				1							1														1	
Hemorrhage																										
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia																										
Hemorrhage							1	1																		
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation										1	2											1		1		
Hemorrhage, Focal			3																							
Pigmentation				1	1	1	2	1	1	1		3		1	2	1			2	2	1	1	1			
Lymphoid Follicle, Atrophy								2											1							
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	2			3		2	2	3	2			1		1	4	3		1	3	2	3		3			
Ectopic Parathyroid Gland	1																									
Fibrosis																										
Hemorrhage						2											2									
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	M	M	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	M	+	+	+	
Galactocele										2																
Pigmentation, Hemosiderin							1												1	1	1		1			
Duct, Dilatation																										

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DAY ON TEST	0480	0730	0730	0730	0731	0505	0666	0458	0609	0729	0729	0729	0729	0729	0729	0585	0424	0729	0729	0698	0658	0669	0729	0619	0732	0732	
WISTAR HAN RATS MALE																											
50 MG/KG																											
ANIMAL ID	00161	00163	00164	00166	00167	00168	00169	00170	00171	00172	00173	00174	00176	00177	00178	00179	00180	00181	00182	00183	00184	00186	00187	00188	00190	**males (cont...)**	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pigmentation																											
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Compression				3	1	3	3	3	3	3		1		1	3	3			2	2	3		3				
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	1	1	1	1	1		1			1			1	1			1	1	1	1	1	1		1	1		
Inflammation, Acute	1																										
Inflammation, Chronic						1																					
Alveolar Epithelium, Hyperplasia												1						2									
Artery, Mineralization																											
Bronchus, Hyperplasia, Lymphoid																		2									
Serosa, Fibrosis	1																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fungus					2																						
Inflammation, Acute					2																						
Inflammation, Chronic Active																											
Ulcer, Multifocal																											
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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WISTAR HAN RATS MALE																										
50 MG/KG																										
ANIMAL ID	00161	00163	00164	00166	00167	00168	00169	00170	00171	00172	00173	00174	00176	00177	00178	00179	00180	00181	00182	00183	00184	00186	00187	00188	00190	**males (cont...)**
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Retina, Atrophy														2		2										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Lacrimal Gland														+												
Inflammation, Chronic														1												
Karyomegaly														2												
Zymbal's Gland																										
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Casts Protein																										
Hydronephrosis	2				3									3					1		3	3				
Hyperplasia, Oncocytic																										
Inflammation, Acute																										
Inflammation, Chronic																										
Nephropathy	1	1	1		1	1	3			1	3	1	1	1	1	1	1	1	1	1	1	1		1	2	
Vacuolization Cytoplasmic							4																			
Pelvis, Inflammation, Acute												2														
Pelvis, Inflammation, Chronic Active																							1			
Pelvis, Mineralization				1					1														1			
Transitional Epithelium, Hyperplasia																							1			
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Calculus Gross Observation																										

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WISTAR HAN RATS MALE																										
50 MG/KG																										
ANIMAL ID	00161	00163	00164	00166	00167	00168	00169	00170	00171	00172	00173	00174	00176	00177	00178	00179	00180	00181	00182	00183	00184	00186	00187	00188	00190	**males (cont...)**

Inflammation, Chronic
Transitional Epithelium, Hyperplasia

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DAY ON TEST	0351	0731	0676	0639	0709	0448	0729	0719	0729	0599	0731	0731	0731	0731	0682	0730	0701	0730	0595	0666	0310	0731	0730	0558	0610	
WISTAR HAN RATS MALE																										
50 MG/KG																										
ANIMAL ID	00191	00192	00194	00195	00196	00198	00199	00200	00201	00202	00203	00204	00205	00206	00207	00209	00210	00211	00212	00213	00214	00216	00218	00219	00220	*** TOTALS**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Inflammation, Acute																										**1 3.0**
Ulcer																										**1 3.0**
Intestine Large, Cecum	+	+	+	+	A	+	+	A	+	+	+	+	+	+	A	+	A	+	A	+	+	+	+	+	+	**43**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	**48**
Intestine Large, Rectum	+	+	+	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	**47**
Inflammation, Acute																										**2 1.5**
Intestine Small, Duodenum	+	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	**46**
Inflammation, Acute															2											**1 2.0**
Intestine Small, Ileum	+	+	+	+	A	+	+	A	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	**42**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	**46**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Angiectasis																										**1 1.0**
Basophilic Focus			X											X		X							X			**7**
Basophilic Focus, Multiple																			X							**4**
Cholangiofibrosis																										**1 2.0**
Clear Cell Focus		X			X																					**2**
Clear Cell Focus, Multiple			X	X			X		X		X	X	X	X		X	X	X				X	X			**27**
Congestion								1									2									**2 1.5**
Degeneration, Cystic											1															**1 1.0**
Eosinophilic Focus							X				X							X				X				**7**

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WISTAR HAN RATS MALE

50 MG/KG

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ANIMAL ID	00191	00192	00194	00195	00196	00198	00199	00200	00201	00202	00203	00204	00205	00206	00207	00209	00210	00211	00212	00213	00214	00216	00218	00219	00220	* TOTALS
Eosinophilic Focus, Multiple		X		X	X																					**8**
Fatty Change	3	3	2	3	2		1	1	2	3	1	1	2	2	2	1	2	1	1	2	1	1	2	3	2	**48 2.1**
Fibrosis	2																									**1 2.0**
Hepatodiaphragmatic Nodule																										**1**
Inflammation, Chronic	2														1											**5 1.2**
Mixed Cell Focus																						X				**2**
Mixed Cell Focus, Multiple																										**2**
Pigmentation						1	1										1									**6 1.0**
Artery, Inflammation, Chronic																										**1 2.0**
Bile Duct, Cyst																										**1 2.0**
Bile Duct, Hyperplasia	1	1		1			1		1					1			2						1			**16 1.3**
Hepatocyte, Hypertrophy	4	4	4	4	3	3	2	3	3	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	**50 3.8**
Hepatocyte, Necrosis	2				1																				1	**5 1.4**
Oval Cell, Hyperplasia		1																								**3 1.0**
Mesentery	+	+					+										+									**10**
Hemorrhage																										**1 3.0**
Fat, Necrosis	2	3					2										2									**9 2.2**
Pancreas	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Atrophy																					1					**1 1.0**
Basophilic Focus, Multiple																										**1 1.0**
Hyperplasia									2																	**1 2.0**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Duct, Parotid Gland, Inflammation, Acute																									1	**4 1.3**
Duct, Submandibular Gland, Inflammation, Acute	1																									**1 1.0**
Parotid Gland, Atrophy	1			1																1					2	**13 1.4**
Parotid Gland, Basophilic Focus									1																	**1 1.0**
Parotid Gland, Vacuolization Cytoplasmic	4									2					1		1			1				3		**17 1.7**

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WISTAR HAN RATS MALE																										
50 MG/KG																										
ANIMAL ID	00191	00192	00194	00195	00196	00198	00199	00200	00201	00202	00203	00204	00205	00206	00207	00209	00210	00211	00212	00213	00214	00216	00218	00219	00220	*** TOTALS**
Sublingual Gland, Atrophy																		2								**1 2.0**
Sublingual Gland, Vacuolization Cytoplasmic																										**1 1.0**
Submandibular Gland, Inflammation, Acute																										**1 1.0**
Submandibular Gland, Vacuolization Cytoplasmic																										**1 2.0**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Edema																								3		**2 2.5**
Hyperkeratosis	3				3			2		2				1	1		1			2				3	1	**17 1.8**
Inflammation, Acute	1																								2	**4 1.3**
Inflammation, Chronic					2			1																		**4 1.8**
Inflammation, Chronic Active															2									2		**3 2.0**
Ulcer																								1	2	**5 1.8**
Epithelium, Hyperplasia	1				3			3		1				1	3		1			3				4	1	**17 2.1**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	**49**
Inflammation, Acute	1																									**2 1.0**
Inflammation, Chronic																										**1 2.0**
Mineralization													1													**2 1.0**

CARDIOVASCULAR SYSTEM

Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cardiomyopathy		1	2		2		2		2			2	1	2	2	1	1		1	2	1		1	1		**29 1.4**
Inflammation, Acute								2																		**1 2.0**
Necrosis, Multifocal								1																		**1 1.0**
Pigmentation, Hemosiderin																									1	**1 1.0**
Thrombosis								3																		**1 3.0**
Epicardium, Inflammation, Chronic																										**1 1.0**
Pericardium, Inflammation, Granulomatous																										**1 2.0**

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WISTAR HAN RATS MALE																										
50 MG/KG																										
ANIMAL ID	00191	00192	00194	00195	00196	00198	00199	00200	00201	00202	00203	00204	00205	00206	00207	00209	00210	00211	00212	00213	00214	00216	00218	00219	00220	*** TOTALS**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	**49**
Accessory Adrenal Cortical Nodule																										**1 2.0**
Angiectasis		1			1					2	1		1			1						1			1	**18 1.1**
Hyperplasia, Focal					1						1				1								1			**16 1.2**
Hypertrophy, Focal		1					1									1		1		1						**8 1.0**
Necrosis, Focal																									1	**1 1.0**
Vacuolization Cytoplasmic							1		1	1	1	1				1						1	1			**17 1.1**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	**49**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Hyperplasia																										**1 1.0**
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cyst																										**1 1.0**
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Pars Distalis, Cyst			X						X																	**4**
Pars Distalis, Hyperplasia, Focal							1	1	1													1				**8 1.4**
Pars Nervosa, Inflammation, Chronic							3						2													**2 2.5**
Thyroid Gland	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	**46**
C-cell, Hyperplasia	1	2	3	2		1	3		2	2	1	3	2	2		2	1	2		3	2	2	2	1	2	**44 1.9**
Follicle, Hypertrophy			1	1						1	3	1		1				1			1	1	1	4	2	**23 1.4**
Follicular Cell, Hyperplasia							1							2										1		**7 1.6**
GENERAL BODY SYSTEM																										
Tissue NOS																			+							**1**

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DAY ON TEST / WISTAR HAN RATS MALE / 50 MG/KG / ANIMAL ID	0351 0019 1	0731 0019 2	0676 0019 4	0639 0019 5	0709 0019 6	0448 0019 8	0729 0019 9	0719 0020 0	0729 0020 1	0599 0020 2	0731 0020 3	0731 0020 4	0731 0020 5	0731 0020 6	0682 0020 7	0730 0020 9	0701 0021 0	0730 0021 1	0595 0021 2	0666 0021 3	0310 0021 4	0731 0021 6	0730 0021 8	0558 0021 9	0610 0022 0	* TOTALS	
Fibrosis																			3							**1**	**3.0**
GENITAL SYSTEM																											
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic									1							1	1									**3**	**1.0**
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic			1																							**2**	**1.0**
Inflammation, Chronic Active																										**2**	**3.0**
Duct, Ectasia	2	2					3					3						2		2				2	2	**15**	**2.2**
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active	1	1	1		1	1	2		4	1		1	1	1		1		1		1		1			1	**27**	**1.3**
Vacuolization Cytoplasmic			1																							**1**	**1.0**
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	**49**	
Hyperplasia																										**1**	**2.0**
Inflammation, Acute																2										**2**	**1.5**
Inflammation, Chronic Active									2																	**1**	**2.0**
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cyst														2												**1**	**2.0**
Degeneration														2												**6**	**1.8**
HEMATOPOIETIC SYSTEM																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Lymph Node					+				+																	**6**	
Mediastinal, Ectasia									2																	**2**	**1.5**

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WISTAR HAN RATS MALE																										
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Mediastinal, Hemorrhage																										**2 2.0**
Mediastinal, Pigmentation, Hemosiderin																										**1 2.0**
Pancreatic, Inflammation, Chronic					3																					**1 3.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Ectasia			2										1			2						1				**7 1.3**
Hemorrhage											1															**1 1.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Ectasia			3																							**1 3.0**
Hemorrhage								2																	1	**4 1.3**
Spleen	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Hematopoietic Cell Proliferation			2				1		2		2	1	1					1			3		1			**13 1.5**
Hemorrhage, Focal																										**1 3.0**
Pigmentation	2	2		1		1				1					1			1		1		1		2	2	**27 1.4**
Lymphoid Follicle, Atrophy	2									2														2		**5 1.8**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy	2	3		1	2		3	3		3					2					2				4	4	**26 2.5**
Ectopic Parathyroid Gland															1											**2 1.0**
Fibrosis													1													**1 1.0**
Hemorrhage															3											**3 2.3**
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	M	+	+	+	M	+	+	+	+	+	+	M	+	+	+	M	+	+	+	**41**
Galactocele																										**1 2.0**
Pigmentation, Hemosiderin			1	1						1			1				1		1	1				1		**13 1.0**
Duct, Dilatation												1														**1 1.0**

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2) Mild 4) Marked

DAY ON TEST	0351	0731	0676	0639	0709	0448	0729	0719	0729	0599	0731	0731	0731	0731	0682	0730	0701	0730	0595	0666	0310	0731	0730	0558	0610	
WISTAR HAN RATS MALE																										
50 MG/KG																										
ANIMAL ID	00191	00192	00194	00195	00196	00198	00199	00200	00201	00202	00203	00204	00205	00206	00207	00209	00210	00211	00212	00213	00214	00216	00218	00219	00220	*** TOTALS**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Pigmentation				2																						**1 2.0**
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Compression	2	1		3	3	3				2					1	1				3				3	3	**26 2.4**
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Infiltration Cellular, Histiocyte		1	1		1				1			1		1	1	1		1		1	1	1	1			**30 1.0**
Inflammation, Acute																										**1 1.0**
Inflammation, Chronic																										**1 1.0**
Alveolar Epithelium, Hyperplasia											1		1					2								**5 1.4**
Artery, Mineralization																					1					**1 1.0**
Bronchus, Hyperplasia, Lymphoid																						2				**2 2.0**
Serosa, Fibrosis																										**1 1.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Fungus																										**1 2.0**
Inflammation, Acute	1																									**2 1.5**
Inflammation, Chronic Active									2																	**1 2.0**
Ulcer, Multifocal									2																	**1 2.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	**49**

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WISTAR HAN RATS MALE

50 MG/KG

DAY ON TEST	035	073	067	063	070	044	072	071	072	059	073	073	073	073	068	073	070	073	059	066	031	073	073	055	061	
ANIMAL ID	0019 1	0019 2	0019 4	0019 5	0019 6	0019 8	0019 9	0020 0	0020 1	0020 2	0020 3	0020 4	0020 5	0020 6	0020 7	0020 9	0021 0	0021 1	0021 2	0021 3	0021 4	0021 6	0021 8	0021 9	0022 0	*** TOTALS**	
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	A	+	+	A	+	+	+	+	+	+	A	A	+	+	A	+	+	+	+	+	+	**45**	
Retina, Atrophy													2													**3**	**2.0**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Lacrimal Gland									+																	**2**	
Inflammation, Chronic																										**1**	**1.0**
Karyomegaly									3																	**2**	**2.5**
Zymbal's Gland																					+					**1**	
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Casts Protein																	1									**1**	**1.0**
Hydronephrosis	3	3											3									3				**10**	**2.7**
Hyperplasia, Oncocytic							1																			**1**	**1.0**
Inflammation, Acute								1																		**1**	**1.0**
Inflammation, Chronic						1																				**1**	**1.0**
Nephropathy		1	2				4				1	1	1	2	1	2	1	1	1	2	1			3	1	**37**	**1.4**
Vacuolization Cytoplasmic																										**1**	**4.0**
Pelvis, Inflammation, Acute																										**1**	**2.0**
Pelvis, Inflammation, Chronic Active											1															**2**	**1.0**
Pelvis, Mineralization																										**3**	**1.0**
Transitional Epithelium, Hyperplasia																										**1**	**1.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Calculus Gross Observation			X																							**1**	

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DAY ON TEST	035	073	067	063	070	044	072	071	072	059	073	073	073	073	068	073	070	073	059	066	031	073	073	055	061	
WISTAR HAN RATS MALE	1	1	6	9	9	8	9	9	9	9	1	1	1	1	2	0	1	0	5	6	0	1	0	8	0	
50 MG/KG ANIMAL ID	001	001	001	001	001	001	001	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	*** TOTALS**
	91	92	94	95	96	98	99	00	01	02	03	04	05	06	07	09	10	11	12	13	14	16	18	19	20	
Inflammation, Chronic			1																							**1 1.0**
Transitional Epithelium, Hyperplasia			4																							**1 4.0**

*** END OF MALE DATA ***

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DAY ON TEST	045	694	736	736	592	292	585	736	736	627	736	736	736	736	585	735	735	735	735	735	735	735	735	735	735	
WISTAR HAN RATS FEMALE																										
0 MG/KG																										
ANIMAL ID	00221	00222	00223	00224	00225	00226	00229	00231	00232	00233	00234	00235	00236	00237	00240	00241	00242	00243	00245	00246	00247	00248	00250	00252	00253	**females (cont...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperkeratosis	2																									
Inflammation, Chronic Active																										
Intestine Large, Cecum	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																		1								
Basophilic Focus										X																
Basophilic Focus, Multiple	X	X	X	X	X				X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Clear Cell Focus				X																					X	
Clear Cell Focus, Multiple			X					X	X	X	X	X	X	X		X	X	X		X	X	X		X		
Congestion						3			1																	
Eosinophilic Focus																	X	X	X							
Fatty Change	3	3								1		1		1									1			
Hematopoietic Cell Proliferation					1					1																
Hepatodiaphragmatic Nodule								X					X										X			
Inflammation, Granulomatous																										

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DAY ON TEST	045	694	736	736	592	292	585	736	736	627	736	736	736	736	585	735	735	735	735	735	735	735	735	735	735	
WISTAR HAN RATS FEMALE																										
0 MG/KG																										
ANIMAL ID	00221	00222	00223	00224	00225	00226	00229	00231	00232	00233	00234	00235	00236	00237	00240	00241	00242	00243	00245	00246	00247	00248	00250	00252	00253	**females (cont...)**
Inflammation, Chronic																							1			
Pigmentation	2																									
Bile Duct, Cyst		1																								
Bile Duct, Cyst, Multiple																									1	
Bile Duct, Fibrosis																										
Bile Duct, Hyperplasia	2					1					1									1	2		1			
Hepatocyte, Necrosis	1					1				1																
Oval Cell, Hyperplasia																										
Serosa, Inflammation, Acute						1																				
Mesentery		+						+	+			+						+								
Congestion																										
Inflammation, Chronic																										
Fat, Necrosis		3						3	3			3						1								
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Atrophy		1	1																							
Inflammation, Chronic				1													2									
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst														4												
Inflammation, Chronic				1																						
Duct, Parotid Gland, Inflammation, Acute																										
Duct, Submandibular Gland, Inflammation, Acute																										
Parotid Gland, Atrophy	2	2																				1				
Parotid Gland, Inflammation, Chronic																										
Parotid Gland, Vacuolization Cytoplasmic	1	4					2																			
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Edema	3																									

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DAY ON TEST	045	069	073	073	059	029	058	073	073	062	073	073	073	073	058	073	073	073	073	073	073	073	073	073	073	
WISTAR HAN RATS FEMALE	4	4	6	6	2	2	5	6	6	7	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	
0 MG/KG																										
ANIMAL ID	00221	00222	00223	00224	00225	00226	00229	00231	00232	00233	00234	00235	00236	00237	00240	00241	00242	00243	00245	00246	00247	00248	00250	00252	00253	**females (cont...)**
Foreign Body													1													
Hyperkeratosis	3	3			1																					
Inflammation, Chronic													1													
Inflammation, Chronic Active	2	2																								
Ulcer	1	1																								
Epithelium, Hyperplasia	3	3			1								1													
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Mineralization			1		1									1					1							
Tooth																										
Inflammation, Chronic																										
CARDIOVASCULAR SYSTEM																										
Blood Vessel																										
Inflammation, Acute																										
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy									1				1				1	1				1	1			
Inflammation, Chronic										2																
Epicardium, Inflammation, Chronic Active																										
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis	1	2	1	1			3		1	2	1	3	1	1	1	1	3	2	1	1	2	2	1	4		
Hematopoietic Cell Proliferation										1																
Hemorrhage																										
Hyperplasia, Focal	1							1			1								2	1			1			
Hypertrophy, Focal					2			1	1			1			1				1							

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DAY ON TEST	0445	0694	0736	0736	0592	0292	0585	0736	0736	0627	0736	0736	0736	0736	0736	0585	0735	0735	0735	0735	0735	0735	0735	0735	0735	0735	0735	
WISTAR HAN RATS FEMALE																												
0 MG/KG																												
ANIMAL ID	00221	00222	00223	00224	00225	00226	00229	00231	00232	00233	00234	00235	00236	00237	00240	00241	00242	00243	00245	00246	00247	00248	00250	00252	00253	**females (cont...)**		
Vacuolization Cytoplasmic				1									1															
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Hyperplasia																												
Hypertrophy					1																							
Pigmentation, Hemosiderin																												
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Pars Distalis, Cyst											X											X						
Pars Distalis, Hyperplasia, Focal			1							1		1	2		1						1				1			
Pars Nervosa, Inflammation, Chronic								2																				
Thyroid Gland	+	+	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
C-cell, Hyperplasia	2	2	2	3	2		2	3	3		1	1	1	3	1	2	3	3	2	1	1	1	2	2	2			
Follicle, Cyst																X							X					
Follicle, Cyst, Multiple																												
Follicle, Hypertrophy				1										1			1	1										
Follicular Cell, Hyperplasia													1															
GENERAL BODY SYSTEM																												
Tissue NOS						+																						
Abscess																												
Inflammation, Acute						2																						
Inflammation, Chronic Active																												
GENITAL SYSTEM																												

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WISTAR HAN RATS FEMALE																										
0 MG/KG																										
ANIMAL ID	00221	00222	00223	00224	00225	00226	00229	00231	00232	00233	00234	00235	00236	00237	00240	00241	00242	00243	00245	00246	00247	00248	00250	00252	00253	**females (cont...)**
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																										
Duct, Cyst																3	2									
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Cyst															2											
Follicle, Cyst				3	4																					
Follicle, Cyst, Multiple								3								2										
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																										
Hemorrhage												4														
Hyperplasia, Atypical										1																
Inflammation, Chronic																										
Endometrium, Hyperplasia, Cystic				4								3			1				1	4			2			
Serosa, Inflammation, Acute						1																				
Vagina	M	M	M	M	M	+	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Myeloid Cell, Hyperplasia					2					3																
Lymph Node					+	+		+		+				+			+	+	+							
Pigmentation, Hemosiderin										2																
Axillary, Ectasia														2												
Axillary, Hyperplasia, Lymphoid																	1									
Axillary, Pigmentation														1												

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DAY ON TEST	045	694	736	736	592	292	585	736	736	627	736	736	736	736	585	735	735	735	735	735	735	735	735	735	735	735	
WISTAR HAN RATS FEMALE																											
0 MG/KG																											
ANIMAL ID	00221	00222	00223	00224	00225	00226	00229	00231	00232	00233	00234	00235	00236	00237	00240	00241	00242	00243	00245	00246	00247	00248	00250	00252	00253	**females (cont...)**	
Inguinal, Pigmentation					1													2									
Mediastinal, Hemorrhage										2																	
Mediastinal, Pigmentation, Hemosiderin																			2								
Pancreatic, Hemorrhage								2																			
Pancreatic, Pigmentation, Hemosiderin								1																			
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Ectasia																											
Hemorrhage																								3			
Necrosis																	1										
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Ectasia														1													
Hemorrhage																			1								
Hyperplasia, Lymphoid											1																
Infiltration Cellular, Histiocyte							1																				
Inflammation, Acute																											
Pigmentation, Hemosiderin																											
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Accessory Spleen																											
Hematopoietic Cell Proliferation				1	4					4		1		1	2		1					2	1	1	1		
Pigmentation	2	2	1				2	1	1		1					1		1	1	1	1	1	1		1		
Capsule, Fibrosis, Focal																											
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Atrophy		4								1							1			1				1			
Hemorrhage								2	2				2	2													

INTEGUMENTARY SYSTEM

DAY ON TEST	045	694	736	736	592	292	585	736	736	627	736	736	736	736	585	735	735	735	735	735	735	735	735	735	735	
WISTAR HAN RATS FEMALE																										
0 MG/KG																										
ANIMAL ID	00221	00222	00223	00224	00225	00226	00229	00231	00232	00233	00234	00235	00236	00237	00240	00241	00242	00243	00245	00246	00247	00248	00250	00252	00253	**females (cont...)**
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Fatty																										
Galactocele					3										2											
Hyperplasia	1				1	1	2	1			1		2	2	1			1	2		2				1	
Duct, Cyst												1														
Duct, Dilatation		1			1				2						2				2				2	1		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrosis																										
Hyperkeratosis		2																								
Ulcer																										
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Skeletal Muscle																										
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Compression	3	3			3		3												3				3			
Cyst																										
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	1	1	1	1			1	1	1		1	1		1		1		1	1	1	1			1		
Inflammation, Chronic			1																							
Alveolar Epithelium, Hyperplasia																										

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DAY ON TEST / WISTAR HAN RATS FEMALE / 0 MG/KG / ANIMAL ID	0445 00221	0694 00222	0736 00223	0736 00224	0592 00225	0292 00226	0585 00229	0736 00231	0736 00232	0627 00233	0736 00234	0736 00235	0736 00236	0736 00237	0585 00240	0735 00241	0735 00242	0735 00243	0735 00245	0735 00246	0735 00247	0735 00248	0735 00250	0735 00252	0735 00253	females (cont...)
Serosa, Inflammation, Acute																									
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
SPECIAL SENSES SYSTEM																									
Ear																									
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Mineralization						2																			
Retina, Atrophy				2											1			2				1			
Harderian Gland	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
URINARY SYSTEM																									
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Calculus Gross Observation																									
Casts Protein																						1			
Cyst					X																				
Cyst, Multiple																				X					
Hydronephrosis																									
Inflammation, Chronic					4																				
Nephropathy			1	1			1	1			1						1		1		1		1		
Pelvis, Inflammation, Acute					1																				
Pelvis, Inflammation, Chronic Active	1										1										1		1	1	
Pelvis, Mineralization	1	1					1	1			1	1		1	2		1	1	1	1	1		3	1	1
Transitional Epithelium, Hyperplasia																							2		

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DAY ON TEST	0445	0694	0736	0736	0592	0292	0585	0736	0736	0627	0736	0736	0736	0736	0736	0585	0735	0735	0735	0735	0735	0735	0735	0735	0735	0735	0735	
WISTAR HAN RATS FEMALE																												
0 MG/KG																												
ANIMAL ID	00221	00222	00223	00224	00225	00226	00229	00231	00232	00233	00234	00235	00236	00237	00240	00241	00242	00243	00245	00246	00247	00248	00250	00252	00253	**females (cont...)**		
Ureter																												
Transitional Epithelium, Hyperplasia																												
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Inflammation, Chronic Active																												
Transitional Epithelium, Hyperplasia																												

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DAY ON TEST	050 8	073 5	073 5	073 5	073 5	073 2	073 5	052 2	059 2	070 8	073 6	073 2	003 7	073 2	073 2	073 2	073 6	073 6	064 6	073 6	073 6	073 6	073 6	073 6	073 6	073 6	
WISTAR HAN RATS FEMALE																											
0 MG/KG																											
ANIMAL ID	002 54	002 55	002 56	002 57	002 58	002 59	002 60	002 61	002 63	002 64	002 65	002 66	002 67	002 68	002 69	002 70	002 72	002 73	002 74	002 75	002 76	002 77	002 78	002 79	002 80	*** TOTALS**	
ALIMENTARY SYSTEM																											
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperkeratosis																										**1**	**2.0**
Inflammation, Chronic Active													3													**1**	**3.0**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	**48**	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	**48**	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	**47**	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	**47**	
Intestine Small, Jejunum	+	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	**46**	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Angiectasis																										**1**	**1.0**
Basophilic Focus				X																						**2**	
Basophilic Focus, Multiple	X	X	X		X	X	X		X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	**42**	
Clear Cell Focus																										**2**	
Clear Cell Focus, Multiple		X	X	X	X		X		X	X	X	X		X	X	X	X	X		X	X	X		X		**33**	
Congestion																1										**3**	**1.7**
Eosinophilic Focus							X									X										**5**	
Fatty Change						1		1	1	3			1			1			1	1					1	**15**	**1.4**
Hematopoietic Cell Proliferation									1									1								**4**	**1.0**
Hepatodiaphragmatic Nodule					X																					**4**	
Inflammation, Granulomatous	3																									**1**	**3.0**

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WISTAR HAN RATS FEMALE

0 MG/KG

DAY ON TEST	050	073	073	073	073	073	073	052	059	070	073	073	003	073	073	073	073	073	064	073	073	073	073	073	073	
ANIMAL ID	00254	00255	00256	00257	00258	00259	00260	00261	00263	00264	00265	00266	00267	00268	00269	00270	00272	00273	00274	00275	00276	00277	00278	00279	00280	*** TOTALS**
Inflammation, Chronic																										**1 1.0**
Pigmentation																										**1 2.0**
Bile Duct, Cyst																										**1 1.0**
Bile Duct, Cyst, Multiple																										**1 1.0**
Bile Duct, Fibrosis	2																									**1 2.0**
Bile Duct, Hyperplasia	1			1							1	2		1	2	2			1		1	2				**16 1.4**
Hepatocyte, Necrosis						2																				**4 1.3**
Oval Cell, Hyperplasia	1																									**1 1.0**
Serosa, Inflammation, Acute																										**1 1.0**
Mesentery	+									+		+							+	+						**10**
Congestion	2																									**1 2.0**
Inflammation, Chronic	1																									**1 1.0**
Fat, Necrosis										2		1							1							**8 2.1**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Atrophy						1																				**3 1.0**
Inflammation, Chronic																					1					**3 1.3**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Cyst																										**1 4.0**
Inflammation, Chronic																										**1 1.0**
Duct, Parotid Gland, Inflammation, Acute																			1							**1 1.0**
Duct, Submandibular Gland, Inflammation, Acute										2																**1 2.0**
Parotid Gland, Atrophy										1																**4 1.5**
Parotid Gland, Inflammation, Chronic																							1			**1 1.0**
Parotid Gland, Vacuolization Cytoplasmic								2		2										1						**6 2.0**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Edema																										**1 3.0**

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WISTAR HAN RATS FEMALE

0 MG/KG

DAY ON TEST	050 8	073 5	073 5	073 5	073 5	073 2	073 5	052 2	059 2	070 8	073 6	073 2	003 7	073 2	073 2	073 2	073 6	073 6	064 6	073 6	073 6	073 6	073 6	073 6	073 6	073 6	
ANIMAL ID	002 54	002 55	002 56	002 57	002 58	002 59	002 60	002 61	002 63	002 64	002 65	002 66	002 67	002 68	002 69	002 70	002 72	002 73	002 74	002 75	002 76	002 77	002 78	002 79	002 80	*** TOTALS**	
Foreign Body																										**1**	**1.0**
Hyperkeratosis								2																		**4**	**2.3**
Inflammation, Chronic																										**1**	**1.0**
Inflammation, Chronic Active																										**2**	**2.0**
Ulcer																										**2**	**1.0**
Epithelium, Hyperplasia								2																		**5**	**2.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	**49**	
Mineralization	1								1								1							1	1		**9** **1.0**
Tooth																			+							**1**	
Inflammation, Chronic																			1								**1** **1.0**

CARDIOVASCULAR SYSTEM

Blood Vessel													+													**1**	
Inflammation, Acute													3														**1** **3.0**
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cardiomyopathy					1					1						1	1	2					1				**12** **1.1**
Inflammation, Chronic																											**1** **2.0**
Epicardium, Inflammation, Chronic Active													2														**1** **2.0**

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Angiectasis	2	4	2	2	2	1	1	1	4	2	2	3		2	2	1	1	2	2	2	1	2	2	2	1		**45** **1.8**
Hematopoietic Cell Proliferation																											**1** **1.0**
Hemorrhage																							2				**1** **2.0**
Hyperplasia, Focal																1	1										**8** **1.1**
Hypertrophy, Focal				2		1					1	1						2			1			2			**13** **1.3**

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WISTAR HAN RATS FEMALE

0 MG/KG

DAY ON TEST	050 8	073 5	073 5	073 5	073 5	073 2	073 5	052 2	059 2	070 8	073 6	073 2	003 7	073 2	073 2	073 2	073 6	073 6	064 6	073 6	073 6	073 6	073 6	073 6	073 6	073 6	
ANIMAL ID	002 54	002 55	002 56	002 57	002 58	002 59	002 60	002 61	002 63	002 64	002 65	002 66	002 67	002 68	002 69	002 70	002 72	002 73	002 74	002 75	002 76	002 77	002 78	002 79	002 80	*** TOTALS**	
Vacuolization Cytoplasmic															1				3		1					**5**	**1.4**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia																			1							**1**	**1.0**
Hypertrophy																										**1**	**1.0**
Pigmentation, Hemosiderin																			1							**1**	**1.0**
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	+	**49**	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Pars Distalis, Cyst																	X									**3**	
Pars Distalis, Hyperplasia, Focal		1					2							1	2		1	2					1			**14**	**1.3**
Pars Nervosa, Inflammation, Chronic																										**1**	**2.0**
Thyroid Gland	+	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	**45**	
C-cell, Hyperplasia	1	2	2	1	2		1	2	1	3	2	2		2	2	1	1	3		2	1	1	1	2	2	**45**	**1.8**
Follicle, Cyst																										**2**	
Follicle, Cyst, Multiple				X																						**1**	
Follicle, Hypertrophy							1										1	1		2						**8**	**1.1**
Follicular Cell, Hyperplasia																										**1**	**1.0**

GENERAL BODY SYSTEM

Tissue NOS								+					+													**3**	
Abscess								4																		**1**	**4.0**
Inflammation, Acute																										**1**	**2.0**
Inflammation, Chronic Active													2													**1**	**2.0**

GENITAL SYSTEM

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DAY ON TEST	0508	0735	0735	0735	0735	0732	0735	0522	0592	0708	0736	0732	0037	0732	0732	0732	0736	0736	0646	0736	0736	0736	0736	0736	0736	0736	
WISTAR HAN RATS FEMALE																											
0 MG/KG																											
ANIMAL ID	00254	00255	00256	00257	00258	00259	00260	00261	00263	00264	00265	00266	00267	00268	00269	00270	00272	00273	00274	00275	00276	00277	00278	00279	00280	*** TOTALS**	
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	**49**	
Inflammation, Chronic																1										**1**	**1.0**
Duct, Cyst																										**2**	**2.5**
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Atrophy							2																			**1**	**2.0**
Cyst	3														3	3		2								**5**	**2.6**
Follicle, Cyst	2																4									**4**	**3.3**
Follicle, Cyst, Multiple																										**2**	**2.5**
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Angiectasis	2																									**1**	**2.0**
Hemorrhage																										**1**	**4.0**
Hyperplasia, Atypical	1	2																								**3**	**1.3**
Inflammation, Chronic	3																									**1**	**3.0**
Endometrium, Hyperplasia, Cystic		2		1			3				1	1							1	1			4	2		**15**	**2.1**
Serosa, Inflammation, Acute																										**1**	**1.0**
Vagina	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	**1**	
HEMATOPOIETIC SYSTEM																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Myeloid Cell, Hyperplasia	2							2	2											1						**6**	**2.0**
Lymph Node								+								+										**10**	
Pigmentation, Hemosiderin																										**1**	**2.0**
Axillary, Ectasia																										**1**	**2.0**
Axillary, Hyperplasia, Lymphoid																										**1**	**1.0**
Axillary, Pigmentation																										**1**	**1.0**

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WISTAR HAN RATS FEMALE

0 MG/KG

DAY ON TEST	0508	0735	0735	0735	0735	0732	0735	0522	0592	0708	0736	0732	0037	0732	0732	0732	0736	0736	0646	0736	0736	0736	0736	0736	0736	0736	
ANIMAL ID	00254	00255	00256	00257	00258	00259	00260	00261	00263	00264	00265	00266	00267	00268	00269	00270	00272	00273	00274	00275	00276	00277	00278	00279	00280	*** TOTALS**	
Inguinal, Pigmentation																										**2**	**1.5**
Mediastinal, Hemorrhage																1										**2**	**1.5**
Mediastinal, Pigmentation, Hemosiderin								1								2										**3**	**1.7**
Pancreatic, Hemorrhage																										**1**	**2.0**
Pancreatic, Pigmentation, Hemosiderin																										**1**	**1.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Ectasia				1	1		1								1											**4**	**1.0**
Hemorrhage															2											**2**	**2.5**
Necrosis																										**1**	**1.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Ectasia		2																								**2**	**1.5**
Hemorrhage																										**1**	**1.0**
Hyperplasia, Lymphoid																										**1**	**1.0**
Infiltration Cellular, Histiocyte																										**1**	**1.0**
Inflammation, Acute	1																									**1**	**1.0**
Pigmentation, Hemosiderin					2																					**1**	**2.0**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Accessory Spleen																		1								**1**	**1.0**
Hematopoietic Cell Proliferation		1		1	2	2	2		4		1	1		2	2	1		2		1		2	1	1		**27**	**1.7**
Pigmentation		1		1	1		1	2		2	1	1		1		1	1	1	2			1		1	2	**31**	**1.2**
Capsule, Fibrosis, Focal																				2						**1**	**2.0**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Atrophy						3				2									3	1				2		**10**	**1.9**
Hemorrhage																										**4**	**2.0**

INTEGUMENTARY SYSTEM

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WISTAR HAN RATS FEMALE

0 MG/KG

DAY ON TEST	05 08	07 35	07 35	07 35	07 35	07 32	07 35	05 22	05 92	07 08	07 36	07 32	00 37	07 32	07 32	07 32	07 36	07 36	06 46	07 36	07 36	07 36	07 36	07 36	07 36	07 36	
ANIMAL ID	00 254	00 255	00 256	00 257	00 258	00 259	00 260	00 261	00 263	00 264	00 265	00 266	00 267	00 268	00 269	00 270	00 272	00 273	00 274	00 275	00 276	00 277	00 278	00 279	00 280	*** TOTALS**	
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Degeneration, Fatty																			2							**1**	**2.0**
Galactocele																										**2**	**2.5**
Hyperplasia			1		1		1			1	1			1	1	1	2		1			2		2	2	**26**	**1.3**
Duct, Cyst																										**1**	**1.0**
Duct, Dilatation				2			1					1			2			1		2	1			1	2	**16**	**1.5**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Fibrosis					1																					**1**	**1.0**
Hyperkeratosis																										**1**	**2.0**
Ulcer																		2								**1**	**2.0**
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Skeletal Muscle																				+						**1**	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Compression										3															3	**8**	**3.0**
Cyst																								X		**1**	
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infiltration Cellular, Histiocyte				1	1	1	1	1		1								1		1	1					**25**	**1.0**
Inflammation, Chronic																										**1**	**1.0**
Alveolar Epithelium, Hyperplasia							1																			**1**	**1.0**

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2) Mild 4) Marked

DAY ON TEST	050	073	073	073	073	073	073	052	059	070	073	073	003	073	073	073	073	073	064	073	073	073	073	073	073		
WISTAR HAN RATS FEMALE	5	5	5	5	5	2	5	2	2	8	6	2	7	2	2	2	6	6	6	6	6	6	6	6	6		
0 MG/KG																											
ANIMAL ID	00254	00255	00256	00257	00258	00259	00260	00261	00263	00264	00265	00266	00267	00268	00269	00270	00272	00273	00274	00275	00276	00277	00278	00279	00280	*** TOTALS**	
Serosa, Inflammation, Acute													2													**1**	**2.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Trachea	+	+	+	+	+	+	+	M	+	+	+	+	A	+	+	+	+	+	A	+	+	+	+	+	+	**47**	
SPECIAL SENSES SYSTEM																											
Ear								+																		**1**	
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Mineralization																										**1**	**2.0**
Retina, Atrophy	2											1		2		2									2	**9**	**1.7**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Calculus Gross Observation																			X							**1**	
Casts Protein																							1			**2**	**1.0**
Cyst																										**1**	
Cyst, Multiple																										**1**	
Hydronephrosis													3													**1**	**3.0**
Inflammation, Chronic																			2							**2**	**3.0**
Nephropathy			1						1							1									1	**13**	**1.0**
Pelvis, Inflammation, Acute																										**1**	**1.0**
Pelvis, Inflammation, Chronic Active			1		1		1	1						1	1	1		1	3	2			1			**16**	**1.2**
Pelvis, Mineralization	1	1	1		2		1	1		1		1		1	2	1		1		1			1	1		**31**	**1.2**
Transitional Epithelium, Hyperplasia														1	1											**3**	**1.3**

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WISTAR HAN RATS FEMALE

0 MG/KG

DAY ON TEST	0508	0735	0735	0735	0735	0732	0735	0522	0592	0708	0736	0732	0037	0732	0732	0732	0736	0736	0646	0736	0736	0736	0736	0736	0736	0736	
ANIMAL ID	0025 4	0025 5	0025 6	0025 7	0025 8	0025 9	0026 0	0026 1	0026 3	0026 4	0026 5	0026 6	0026 7	0026 8	0026 9	0027 0	0027 2	0027 3	0027 4	0027 5	0027 6	0027 7	0027 8	0027 9	0028 0	*** TOTALS**	
Ureter																			+							**1**	
Transitional Epithelium, Hyperplasia																			2								**1 2.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic Active																			1								**1 1.0**
Transitional Epithelium, Hyperplasia																			2								**1 2.0**

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DAY ON TEST	0735	0708	0735	0735	0735	0732	0732	0619	0732	0732	0735	0735	0735	0735	0735	0735	0732	0732	0694	0732	0687	0732	0732	0525	0732	0732	
WISTAR HAN RATS FEMALE																											
3 MG/KG																											
ANIMAL ID	00281	00282	00283	00284	00285	00286	00287	00288	00289	00290	00291	00292	00293	00294	00295	00296	00297	00298	00299	00300	00301	00302	00303	00304	00305	**females (cont...)**	
ALIMENTARY SYSTEM																											
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Degeneration, Fatty, Focal																											
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Epithelium, Vacuolization Cytoplasmic																							2				
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Basophilic Focus			X																	X		X					
Basophilic Focus, Multiple	X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X		
Clear Cell Focus			X						X																		
Clear Cell Focus, Multiple					X		X			X	X	X	X	X					X			X			X		
Eosinophilic Focus																											
Eosinophilic Focus, Multiple		X						X																			
Fatty Change		3						4					1						1	3			2	4	1		
Hematopoietic Cell Proliferation				1																							
Hepatodiaphragmatic Nodule							X												X								
Mixed Cell Focus																		X									
Pigmentation																											

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WISTAR HAN RATS FEMALE

3 MG/KG

DAY ON TEST	073 5	070 8	073 5	073 5	073 5	073 2	073 2	061 9	073 2	073 2	073 5	073 5	073 5	073 5	073 5	073 5	073 2	073 2	069 4	073 2	068 7	073 2	073 2	052 5	073 2	073 2	
ANIMAL ID	00281	00282	00283	00284	00285	00286	00287	00288	00289	00290	00291	00292	00293	00294	00295	00296	00297	00298	00299	00300	00301	00302	00303	00304	00305		**females (cont...)**
Bile Duct, Cyst																				1			2				
Bile Duct, Hyperplasia	1					2	1		1						1	1				1		2	1		2		
Hepatocyte, Hypertrophy	2	4	2	2	1	2	2		2	2	2	2	2	2	2	2	1	2	1	1	4	3	2	2	2	2	
Hepatocyte, Necrosis				1																							
Oval Cell, Hyperplasia																											
Mesentery									+			+									+						
Inflammation, Granulomatous, Chronic Active																											
Fat, Necrosis									1			2									1						
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy													1												1		
Inflammation, Granulomatous, Chronic																											
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Duct, Degeneration, Hyaline																									1		
Duct, Parotid Gland, Inflammation, Acute																				1					1		
Parotid Gland, Atrophy																				2			2				
Parotid Gland, Inflammation																									1		
Parotid Gland, Vacuolization Cytoplasmic		2						2												2			1		1		
Sublingual Gland, Vacuolization Cytoplasmic																											
Submandibular Gland, Inflammation, Acute																							1				
Submandibular Gland, Necrosis																							1				
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema																											
Hyperkeratosis								2															2	1			
Inflammation, Acute																							2	1			
Inflammation, Chronic Active																											
Mineralization																											

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DAY ON TEST	073 5	070 8	073 5	073 5	073 5	073 2	073 2	061 9	073 2	073 2	073 5	073 5	073 5	073 5	073 5	073 2	073 2	069 4	073 2	068 7	073 2	073 2	052 5	073 2	073 2	
WISTAR HAN RATS FEMALE																										
3 MG/KG																										
ANIMAL ID	00281	00282	00283	00284	00285	00286	00287	00288	00289	00290	00291	00292	00293	00294	00295	00296	00297	00298	00299	00300	00301	00302	00303	00304	00305	**females (cont...)**
Ulcer																								1		
Epithelium, Hyperplasia								2															2	2		
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute																										
Mineralization											1			1												
Ulcer																										
CARDIOVASCULAR SYSTEM																										
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy													1	1	1		2									
Epicardium, Inflammation, Chronic																										
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accessory Adrenal Cortical Nodule, Multifocal																										
Angiectasis	1	1	2	1	1	1	1	1	2	2	1		2	1	1	2	2	1	1	1	1	1	1	2	1	
Hyperplasia, Focal												1									1	1				
Hypertrophy, Focal				1	1		1													1						
Necrosis																										
Vacuolization Cytoplasmic					1												1				1					
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	073 5	070 8	073 5	073 5	073 5	073 2	073 2	061 9	073 2	073 2	073 5	073 5	073 5	073 5	073 5	073 5	073 2	073 2	069 4	073 2	068 7	073 2	073 2	052 5	073 2	073 2
WISTAR HAN RATS FEMALE																										
3 MG/KG																										
ANIMAL ID	002 81	002 82	002 83	002 84	002 85	002 86	002 87	002 88	002 89	002 90	002 91	002 92	002 93	002 94	002 95	002 96	002 97	002 98	002 99	003 00	003 01	003 02	003 03	003 04	003 05	**females (cont...)**
Pars Distalis, Cyst, Multiple			X																							
Pars Distalis, Hyperplasia, Focal	1												2			1		1	1							2
Pars Intermedia, Hyperplasia, Focal							2																			
Pars Intermedia, Hypertrophy																										
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia	2	2	2	2	1	1	2	1	2	2	1	2	1	2	2	2	2	2	2	3	2	1	2	1	2	
Follicle, Hypertrophy	1		1	1		2								2	1			1		2						
Follicular Cell, Hyperplasia						1														1						
GENERAL BODY SYSTEM																										
Tissue NOS																		+								
Inflammation, Suppurative, Chronic Active																										
GENITAL SYSTEM																										
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic											1															
Duct, Cyst																						3				
Duct, Cyst, Multiple																										
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																										
Cyst						3														2						
Hyperplasia, Tubulostromal																									3	
Follicle, Cyst											1															
Follicle, Cyst, Multiple																										
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Adenomyosis																					1					

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DAY ON TEST / WISTAR HAN RATS FEMALE / 3 MG/KG / ANIMAL ID	0735 0028 1	0708 0028 2	0735 0028 3	0735 0028 4	0735 0028 5	0732 0028 6	0732 0028 7	0619 0028 8	0732 0028 9	0732 0029 0	0735 0029 1	0735 0029 2	0735 0029 3	0735 0029 4	0735 0029 5	0732 0029 6	0732 0029 7	0694 0029 8	0732 0029 9	0687 0030 0	0732 0030 1	0732 0030 2	0525 0030 3	0732 0030 4	0732 0030 5	females (cont...)
Cyst																						X				
Hyperplasia, Atypical																										
Inflammation, Chronic Active																										
Endometrium, Hyperplasia, Cystic	1			1													3				2				3	
Vagina	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	+	M	M	M	M	
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Myeloid Cell, Hyperplasia																										
Lymph Node		+											+					+								
Mediastinal, Ectasia																		3								
Mediastinal, Hemorrhage																		3								
Mediastinal, Inflammation, Granulomatous, Chronic Active																										
Mediastinal, Pigmentation, Hemosiderin		2											2													
Popliteal, Pigmentation																										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia																		3								
Pigmentation, Hemosiderin		2																								
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia																		3								
Hemorrhage						2	3																			
Pigmentation, Hemosiderin		1																								
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Accessory Spleen																	X									

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DAY ON TEST / WISTAR HAN RATS FEMALE / 3 MG/KG / ANIMAL ID	0735 0028 1	0708 0028 2	0735 0028 3	0735 0028 4	0735 0028 5	0732 0028 6	0732 0028 7	0619 0028 8	0732 0028 9	0732 0029 0	0735 0029 1	0735 0029 2	0735 0029 3	0735 0029 4	0735 0029 5	0732 0029 6	0732 0029 7	0694 0029 8	0732 0029 9	0687 0030 0	0732 0030 1	0732 0030 2	0525 0030 3	0732 0030 4	0732 0030 5	females (cont...)
Hematopoietic Cell Proliferation			1	4			2		2	1			1	1		2		2	1			2				
Hemorrhage																										
Pigmentation	1	2			1	1	1	2	1		2	1		1		2				2	1		2	1	1	
Lymphoid Follicle, Atrophy																				1						
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	
Atrophy			1					4												4				3		
Hemorrhage	2				2						2															
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia		2		2	1				1	1	1	1	1		1			1	1			2	3	2		
Duct, Dilatation		1	2			2	2	2						2				1			1			2	1	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic	2																									
Inflammation, Chronic Active																		2								
Epidermis, Hyperplasia																		3								
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Compression		3						3													2		3	2		
RESPIRATORY SYSTEM																										

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DAY ON TEST	073 5	070 8	073 5	073 5	073 5	073 2	073 2	061 9	073 2	073 2	073 5	073 5	073 5	073 5	073 5	073 2	073 2	073 2	069 4	073 2	068 7	073 2	073 2	052 5	073 2	073 2	
WISTAR HAN RATS FEMALE																											
3 MG/KG																											
ANIMAL ID	00281	00282	00283	00284	00285	00286	00287	00288	00289	00290	00291	00292	00293	00294	00295	00296	00297	00298	00299	00300	00301	00302	00303	00304	00305	**females (cont...)**	
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Infiltration Cellular, Histiocyte				1			1		1	1	1	1		1	1		1	1	1			1	1	1			
Alveolar Epithelium, Hyperplasia									1		1											1					
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation, Acute											2																
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation, Chronic																											
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Developmental Malformation		X																									
Retina, Atrophy				1				1			2																
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Cyst																											
Hydronephrosis																											
Nephropathy		1							1												1						
Pigmentation																											
Pelvis, Inflammation, Chronic Active				1		1							1								1			1			
Pelvis, Mineralization	1		1	1	1	1		1	1				1						1		1	1		1			
Transitional Epithelium, Hyperplasia																											
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

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2) Mild 4) Marked

DAY ON TEST	073 5	065 1	065 8	073 5	073 5	073 6	058 5	073 6	073 6	073 6	073 6	073 6	073 6	073 6	035 8	073 6	073 6	073 6	066 2	069 4	073 6	073 6	073 6	073 6	073 6	073 6	073 6	
WISTAR HAN RATS FEMALE																												
3 MG/KG																												
ANIMAL ID	00306	00307	00308	00309	00310	00311	00312	00313	00314	00315	00316	00317	00318	00319	00320	00321	00322	00323	00324	00325	00326	00327	00328	00329	00330	*** TOTALS**		
ALIMENTARY SYSTEM																												
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	**49**		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	**49**		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	**49**		
Degeneration, Fatty, Focal																								2			**1**	**2.0**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	**49**		
Epithelium, Vacuolization Cytoplasmic																											**1**	**2.0**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	**49**		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	**49**		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	**49**		
Basophilic Focus														X												**4**		
Basophilic Focus, Multiple	X		X	X		X	X	X	X	X	X	X	X		X	X	X		X	X	X	X		X		**39**		
Clear Cell Focus													X													**3**		
Clear Cell Focus, Multiple								X	X		X	X			X					X	X	X				**18**		
Eosinophilic Focus			X														X			X		X			X	**5**		
Eosinophilic Focus, Multiple																										**2**		
Fatty Change		4	4					1											2							**12**	**2.5**	
Hematopoietic Cell Proliferation																										**1**	**1.0**	
Hepatodiaphragmatic Nodule										X														X	X	**5**		
Mixed Cell Focus																										**1**		
Pigmentation			1											3												**2**	**2.0**	

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WISTAR HAN RATS FEMALE

3 MG/KG

DAY ON TEST	073 5	065 1	065 8	073 5	073 5	073 6	058 5	073 6	073 6	073 6	073 6	073 6	073 6	073 6	035 8	073 6	073 6	073 6	073 6	062 2	069 4	073 6	073 6	073 6	073 6	073 6	073 6	073 6		
ANIMAL ID	0003 06	0003 07	0003 08	0003 09	0003 10	0003 11	0003 12	0003 13	0003 14	0003 15	0003 16	0003 17	0003 18	0003 19	0003 20	0003 21	0003 22	0003 23	0003 24	0003 25	0003 26	0003 27	0003 28	0003 29	0003 30	* TOTALS		
Bile Duct, Cyst																											**2**	**1.5**
Bile Duct, Hyperplasia					1	2			1		1	1				1					1	1	1		1		**20**	**1.2**
Hepatocyte, Hypertrophy	2	2	3	1	2	2	1	2	1	2	2	2	2	1	2	1	2		2	2	1	2	1	2	2		**48**	**1.9**
Hepatocyte, Necrosis	1																										**2**	**1.0**
Oval Cell, Hyperplasia												1										1			1		**3**	**1.0**
Mesentery												+	+			+		+								**7**		
Inflammation, Granulomatous, Chronic Active																		4									**1**	**4.0**
Fat, Necrosis												2	2			1											**6**	**1.5**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	**49**		
Atrophy														1													**3**	**1.0**
Inflammation, Granulomatous, Chronic														1													**1**	**1.0**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**		
Duct, Degeneration, Hyaline																											**1**	**1.0**
Duct, Parotid Gland, Inflammation, Acute																											**2**	**1.0**
Parotid Gland, Atrophy			2																2								**4**	**2.0**
Parotid Gland, Inflammation																											**1**	**1.0**
Parotid Gland, Vacuolization Cytoplasmic		2	2															2	3								**9**	**1.9**
Sublingual Gland, Vacuolization Cytoplasmic			1																								**1**	**1.0**
Submandibular Gland, Inflammation, Acute																											**1**	**1.0**
Submandibular Gland, Necrosis																											**1**	**1.0**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	**49**		
Edema		3																									**1**	**3.0**
Hyperkeratosis		2	1																2								**6**	**1.7**
Inflammation, Acute			1																								**3**	**1.3**
Inflammation, Chronic Active		3																	1								**2**	**2.0**
Mineralization					1															1							**2**	**1.0**

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DAY ON TEST / WISTAR HAN RATS FEMALE / 3 MG/KG / ANIMAL ID	073500306	065100307	065800308	073500309	073500310	073600311	058500312	073600313	073600314	073600315	073600316	073600317	073600318	035800319	073600320	073600321	073600322	066200323	069400324	073600325	073600326	073600327	073600328	073600329	073600330	* TOTALS	
Ulcer		3	2																2							**4**	**2.0**
Epithelium, Hyperplasia		3	2																3							**6**	**2.3**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	**49**	
Inflammation, Acute			1																							**1**	**1.0**
Mineralization	1			1	1			2			1	1					1			1					1	**11**	**1.1**
Ulcer			2																							**1**	**2.0**
CARDIOVASCULAR SYSTEM																											
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cardiomyopathy											1	1			1						1					**8**	**1.1**
Epicardium, Inflammation, Chronic																		2								**1**	**2.0**
ENDOCRINE SYSTEM																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	**49**	
Accessory Adrenal Cortical Nodule, Multifocal																								2		**1**	**2.0**
Angiectasis	1	2	1	2	2	1	1	2	2	2	1		2			2	1			2	3	1	1	3	1	**44**	**1.5**
Hyperplasia, Focal				1								1										1				**6**	**1.0**
Hypertrophy, Focal	1			1					1	1						1										**9**	**1.0**
Necrosis																			4							**1**	**4.0**
Vacuolization Cytoplasmic																			1						1	**5**	**1.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	**49**	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	M	+	+	+	+	+	+	+	+	**47**	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	**49**	

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WISTAR HAN RATS FEMALE

3 MG/KG

DAY ON TEST	07 35	06 51	06 58	07 35	07 35	07 36	05 85	07 36	07 36	07 36	07 36	07 36	07 36	03 58	07 36	07 36	07 36	06 62	06 94	07 36	07 36	07 36	07 36	07 36	07 36	07 36	*** TOTALS**	
ANIMAL ID	00 306	00 307	00 308	00 309	00 310	00 311	00 312	00 313	00 314	00 315	00 316	00 317	00 318	00 319	00 320	00 321	00 322	00 323	00 324	00 325	00 326	00 327	00 328	00 329	00 330			
Pars Distalis, Cyst, Multiple																											**1**	
Pars Distalis, Hyperplasia, Focal								1					1								1						**9**	**1.2**
Pars Intermedia, Hyperplasia, Focal																											**1**	**2.0**
Pars Intermedia, Hypertrophy							2																				**1**	**2.0**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	**49**		
C-cell, Hyperplasia	2	3	3	1	1	2		2	2	1	2	2	2	2	2	1	2		1	2	2	2	2	1	2		**48**	**1.8**
Follicle, Hypertrophy	2		2			1	1							1					1	1				1	1		**17**	**1.3**
Follicular Cell, Hyperplasia	1												1							1							**5**	**1.0**
GENERAL BODY SYSTEM																												
Tissue NOS																			+							**2**		
Inflammation, Suppurative, Chronic Active																			4								**1**	**4.0**
GENITAL SYSTEM																												
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	**49**		
Inflammation, Chronic																											**1**	**1.0**
Duct, Cyst		2								3							2										**4**	**2.5**
Duct, Cyst, Multiple																								3			**1**	**3.0**
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	**49**		
Atrophy						3					3														3		**3**	**3.0**
Cyst							3													1					2		**5**	**2.2**
Hyperplasia, Tubulostromal				3							3											3					**4**	**3.0**
Follicle, Cyst	1																										**2**	**1.0**
Follicle, Cyst, Multiple																									2		**1**	**2.0**
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	**49**		
Adenomyosis																											**1**	**1.0**

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DAY ON TEST / WISTAR HAN RATS FEMALE / 3 MG/KG / ANIMAL ID	0735 00306	0651 00307	0658 00308	0735 00309	0735 00310	0736 00311	0585 00312	0736 00313	0736 00314	0736 00315	0736 00316	0736 00317	0736 00318	0358 00319	0736 00320	0736 00321	0736 00322	0662 00323	0694 00324	0736 00325	0736 00326	0736 00327	0736 00328	0736 00329	0736 00330	* TOTALS	
Cyst																										**1**	
Hyperplasia, Atypical																							1			**1**	**1.0**
Inflammation, Chronic Active																			4							**1**	**4.0**
Endometrium, Hyperplasia, Cystic									1						3		2								4	**9**	**2.2**
Vagina	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	**1**	
HEMATOPOIETIC SYSTEM																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Myeloid Cell, Hyperplasia	2																	3	2						2	**4**	**2.3**
Lymph Node		+																+								**5**	
Mediastinal, Ectasia																										**1**	**3.0**
Mediastinal, Hemorrhage																										**1**	**3.0**
Mediastinal, Inflammation, Granulomatous, Chronic Active																		3								**1**	**3.0**
Mediastinal, Pigmentation, Hemosiderin																										**2**	**2.0**
Popliteal, Pigmentation		2																								**1**	**2.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Ectasia												2														**2**	**2.5**
Pigmentation, Hemosiderin																										**1**	**2.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	**49**	
Ectasia																										**1**	**3.0**
Hemorrhage						1														2						**4**	**2.0**
Pigmentation, Hemosiderin																										**1**	**1.0**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	**49**	
Accessory Spleen																										**1**	

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DAY ON TEST / WISTAR HAN RATS FEMALE / 3 MG/KG / ANIMAL ID	073500306	065100307	065800308	073500309	073500310	073600311	058500312	073600313	073600314	073600315	073600316	073600317	073600318	035800319	073600320	073600321	073600322	066200323	069400324	073600325	073600326	073600327	073600328	073600329	073600330	* TOTALS	
Hematopoietic Cell Proliferation	1				1			2			1		1		1	1	1		4		1	1	1		2	**24**	**1.5**
Hemorrhage					2																					**1**	**2.0**
Pigmentation		2	2	1		1			1		1	1	1	1	1	1	1			1	1	1				**31**	**1.3**
Lymphoid Follicle, Atrophy			1																							**2**	**1.0**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Atrophy			2															2	3							**7**	**2.7**
Hemorrhage	2										3		1													**6**	**2.0**
INTEGUMENTARY SYSTEM																											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	**49**	
Hyperplasia		3	2	1	1			1		2			1	1			2		1		1	1		1	1	**28**	**1.4**
Duct, Dilatation				2	2				1			3		1	2	2	2				2					**19**	**1.7**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic																										**1**	**2.0**
Inflammation, Chronic Active																										**1**	**2.0**
Epidermis, Hyperplasia																										**1**	**3.0**
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Compression		3	3											1			3									**9**	**2.6**
RESPIRATORY SYSTEM																											

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WISTAR HAN RATS FEMALE

3 MG/KG

DAY ON TEST	0735	0651	0658	0735	0735	0736	0585	0736	0736	0736	0736	0736	0736	0358	0736	0736	0736	0662	0694	0736	0736	0736	0736	0736	0736		
ANIMAL ID	00306	00307	00308	00309	00310	00311	00312	00313	00314	00315	00316	00317	00318	00319	00320	00321	00322	00323	00324	00325	00326	00327	00328	00329	00330	* TOTALS	
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Infiltration Cellular, Histiocyte				1				1				1	1		1	1					2	1	1			23	1.0
Alveolar Epithelium, Hyperplasia																										3	1.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Acute																										1	2.0
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic														1												1	1.0
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	49	
Developmental Malformation																										1	
Retina, Atrophy																										3	1.3
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst										X																1	
Hydronephrosis												2														1	2.0
Nephropathy			1																2	1			1		1	8	1.1
Pigmentation																			1							1	1.0
Pelvis, Inflammation, Chronic Active	2		1										1		1				1							10	1.1
Pelvis, Mineralization	1	1	1	1	1			2	1		1		2		1	1	2		1		1	1		2	1	29	1.1
Transitional Epithelium, Hyperplasia			2										2				1							1		4	1.5
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	49	

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

DAY ON TEST	073 5	073 5	050 8	073 5	073 5	055 3	065 6	073 6	073 0	073 6	073 5	073 5	055 5	073 5	068 6	073 6	073 6	061 4	073 6	073 6	073 6	073 6	067 6	073 6	073 6	
WISTAR HAN RATS FEMALE																										
15 MG/KG																										
ANIMAL ID	003 31	003 32	003 33	003 34	003 35	003 36	003 37	003 38	003 39	003 40	003 41	003 42	003 43	003 44	003 45	003 46	003 47	003 48	003 49	003 50	003 51	003 52	003 53	003 54	003 55	**females (cont...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis		1																		1						
Basophilic Focus									X									X								
Basophilic Focus, Multiple	X	X		X	X	X		X		X	X	X		X	X	X	X		X	X	X	X				
Clear Cell Focus																									X	
Clear Cell Focus, Multiple		X			X									X		X	X		X	X	X	X				
Cyst																										
Eosinophilic Focus								X					X			X	X								X	
Eosinophilic Focus, Multiple									X	X		X		X	X						X	X		X		
Fatty Change					1	4	1	1		1			4	1		1		1	1		1	1	2			
Fibrosis					1																					
Hyperplasia, Nodular								3				2														
Pigmentation							1																			
Bile Duct, Cyst			1											2											2	

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DAY ON TEST	073 5	073 5	050 8	073 5	073 5	055 3	065 6	073 6	073 0	073 6	073 5	073 5	055 5	073 5	068 6	073 6	073 6	061 4	073 6	073 6	073 6	073 6	067 6	073 6	073 6	
WISTAR HAN RATS FEMALE																										
15 MG/KG																										
ANIMAL ID	003 31	003 32	003 33	003 34	003 35	003 36	003 37	003 38	003 39	003 40	003 41	003 42	003 43	003 44	003 45	003 46	003 47	003 48	003 49	003 50	003 51	003 52	003 53	003 54	003 55	**females (cont...)**
Bile Duct, Cyst, Multiple					1																					
Bile Duct, Hyperplasia	1				1		1			1				1				1		1	1	1	1			
Hepatocyte, Degeneration									4																	
Hepatocyte, Hypertrophy	3	3	2	3	3	4	3	3	3	3	3	4	3	3	3	3	3	2	3	3	3	3	3	3	3	
Hepatocyte, Mitosis				2																						
Hepatocyte, Necrosis																										
Oval Cell, Hyperplasia																1										
Mesentery				+					+			+			+		+					+				
Fat, Necrosis												1					1					2				
Oral Mucosa							+																			
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy				2								1														
Inflammation, Chronic									3																	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																		1								
Duct, Parotid Gland, Inflammation, Acute							4																			
Parotid Gland, Atrophy		1				1							2													
Parotid Gland, Inflammation, Acute																										
Parotid Gland, Vacuolization Cytoplasmic						1	1						2													
Sublingual Gland, Ectopic Tissue																									2	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Edema						2																				
Hyperkeratosis						2									3											
Inflammation, Acute						3																				
Inflammation, Chronic																										
Inflammation, Chronic Active															3											

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DAY ON TEST	073 5	073 5	050 8	073 5	073 5	055 3	065 6	073 6	073 0	073 6	073 5	073 5	055 5	073 5	068 6	073 6	073 6	061 4	073 6	073 6	073 6	073 6	067 6	073 6	073 6	
WISTAR HAN RATS FEMALE																										
15 MG/KG																										
ANIMAL ID	003 31	003 32	003 33	003 34	003 35	003 36	003 37	003 38	003 39	003 40	003 41	003 42	003 43	003 44	003 45	003 46	003 47	003 48	003 49	003 50	003 51	003 52	003 53	003 54	003 55	**females (cont...)**
Mineralization					1						1															
Ulcer						2									3											
Epithelium, Hyperplasia						2									4											
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Erosion																										
Inflammation, Acute																										
Mineralization				1	1				1		1	1										1				
Necrosis														1												
Ulcer																										
CARDIOVASCULAR SYSTEM																										
Blood Vessel																										
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy		2	1		1						1						2									
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis		4	1	1	1	1	1	1	2	2	2	1		1	2	2	3	2	3	1	1	2	1	3	1	
Hematopoietic Cell Proliferation									1						1											
Hyperplasia, Focal									1	3									1					1	1	
Hypertrophy, Focal	1				2			1						2					2	1		1				
Vacuolization Cytoplasmic									1					1	1			1								
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Focal																										
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST / WISTAR HAN RATS FEMALE / 15 MG/KG / ANIMAL ID	0735 00331	0735 00332	0508 00333	0735 00334	0735 00335	0553 00336	0656 00337	0736 00338	0730 00339	0736 00340	0735 00341	0735 00342	0555 00343	0735 00344	0686 00345	0736 00346	0736 00347	0614 00348	0736 00349	0736 00350	0736 00351	0736 00352	0676 00353	0736 00354	0736 00355	females (cont...)
Parathyroid Gland	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pigmentation, Hemosiderin																										
Pars Distalis, Cyst, Multiple								X													X					
Pars Distalis, Hyperplasia, Focal				1	1			1	1										2	2	1	1			1	
Pars Nervosa, Cyst, Multiple		2																								
Pars Nervosa, Inflammation, Chronic																										
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	
C-cell, Hyperplasia	1	3	1	1	2	2	2	2	2	2	1	1	1	2	2	1	1		3	2	2	1	1	3	2	
Follicle, Cyst									X			X														
Follicle, Hypertrophy		1		2					1	1				1	1	2			1			1		2	1	
Follicular Cell, Hyperplasia																										
Follicular Cell, Hypertrophy	1																									
GENERAL BODY SYSTEM																										
Tissue NOS				+				+																		
Fibrosis								1																		
GENITAL SYSTEM																										
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																										
Inflammation, Chronic Active																										
Duct, Cyst																	2									
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy														2												

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DAY ON TEST / WISTAR HAN RATS FEMALE / 15 MG/KG / ANIMAL ID	0735 0033 31	0735 0033 32	0508 0033 33	0735 0033 34	0735 0033 35	0553 0033 36	0656 0033 37	0736 0033 38	0730 0033 39	0736 0033 40	0735 0033 41	0735 0033 42	0555 0033 43	0735 0033 44	0686 0033 45	0736 0033 46	0736 0033 47	0614 0033 48	0736 0033 49	0736 0033 50	0736 0033 51	0736 0033 52	0676 0033 53	0736 0033 54	0736 0033 55	females (cont...)
Cyst		4						2	1							2			1							
Cyst, Multiple																							4			
Hyperplasia, Tubulostromal														2										2		
Follicle, Cyst																				3		2				
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Decidual Reaction			2																							
Dilatation										4																
Hemorrhage																										
Hyperplasia, Atypical																1										
Metaplasia, Squamous																			1							
Cervix, Hyperkeratosis																							4			
Endometrium, Hyperplasia, Cystic											1					3		1	2	3	4	1	3			
Myometrium, Degeneration, Mucoid													1													
Serosa, Cyst																										
Vagina	M	M	+	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Myeloid Cell, Hyperplasia			2						2	2					3				2				2			
Lymph Node					+				+						+											
Inguinal, Pigmentation																										
Mediastinal, Ectasia									1																	
Mediastinal, Hyperplasia, Plasma Cell									4																	
Mediastinal, Pigmentation																										
Mediastinal, Pigmentation, Hemosiderin					1																					
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	073 5	073 5	050 8	073 5	073 5	055 3	065 6	073 6	073 0	073 6	073 5	073 5	055 5	073 5	068 6	073 6	073 6	061 4	073 6	073 6	073 6	073 6	067 6	073 6	073 6	
WISTAR HAN RATS FEMALE																										
15 MG/KG																										
ANIMAL ID	003 31	003 32	003 33	003 34	003 35	003 36	003 37	003 38	003 39	003 40	003 41	003 42	003 43	003 44	003 45	003 46	003 47	003 48	003 49	003 50	003 51	003 52	003 53	003 54	003 55	**females (cont...)**
Ectasia					1								1				1				1					
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia	2			1																						
Hemorrhage		3					2																			
Pigmentation, Hemosiderin																										
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation		1	3	2					4	3	1	1				1	1		2							
Hemorrhage																										
Pigmentation	1	1			1	2	2				1	1	2				1		1	1	1		1	1	1	
Lymphoid Follicle, Atrophy									3																	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	
Atrophy	1	1				2	3		4				2		4							1	1	1		
Hemorrhage								2								1			1							
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Fibrosis									2																	
Galactocele																			2				2			
Hyperplasia		2				2	1		1		1		3		1		2	1				1		2		
Inflammation, Granulomatous																										
Duct, Cyst					1																					
Duct, Dilatation								1	2	2						2					2	1				
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperkeratosis																										
Inflammation, Acute						1																				
Inflammation, Chronic																										

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DAY ON TEST	0735	0735	0508	0735	0735	0553	0656	0736	0730	0736	0735	0735	0555	0735	0686	0736	0736	0614	0736	0736	0736	0736	0676	0736	0736	
WISTAR HAN RATS FEMALE																										
15 MG/KG																										
ANIMAL ID	00331	00332	00333	00334	00335	00336	00337	00338	00339	00340	00341	00342	00343	00344	00345	00346	00347	00348	00349	00350	00351	00352	00353	00354	00355	**females (cont...)**
Ulcer						2																				
Epidermis, Hyperplasia																										
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Compression						3							3				1						3	3		
Hemorrhage, Multifocal																										
Peripheral Nerve								+																		
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	1	1						1	1	1			1			1	1		1	1		1	1	1		
Mineralization																						1				
Alveolar Epithelium, Hyperplasia							1																			
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Acute							3																			
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic																										
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	

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DAY ON TEST / WISTAR HAN RATS FEMALE / 15 MG/KG / ANIMAL ID	0735 0031	0735 0032	0508 0033	0735 0034	0735 0035	0553 0036	0656 0037	0736 0038	0730 0039	0736 0040	0735 0041	0735 0042	0555 0043	0735 0044	0686 0045	0736 0046	0736 0047	0614 0048	0736 0049	0736 0050	0736 0051	0736 0052	0676 0053	0736 0054	0736 0055	females (cont...)
Retina, Atrophy								2			2					2				1						
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst																							X			
Hydronephrosis															4											
Inflammation, Chronic									1																	
Inflammation, Chronic Active															2											
Nephropathy	1	1				1				1		1		1					1					1	1	
Pigmentation																										
Pelvis, Inflammation, Chronic Active		1				1					1												1			
Pelvis, Mineralization	1	1				1					1		1			1	1		1	1			2			
Renal Tubule, Dilatation																										
Transitional Epithelium, Hyperplasia																							2			
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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DAY ON TEST	0676	0736	0569	0701	0736	0736	0610	0736	0736	0472	0735	0735	0676	0735	0715	0694	0732	0732	0732	0655	0732	0368	0732	0732	0732	
WISTAR HAN RATS FEMALE																										
15 MG/KG																										
ANIMAL ID	0035 6	0035 7	0035 8	0035 9	0036 0	0036 1	0036 2	0036 3	0036 4	0036 5	0036 6	0036 7	0036 8	0036 9	0037 0	0037 1	0037 2	0037 3	0037 4	0037 5	0037 6	0037 7	0037 8	0037 9	0038 0	*** TOTALS**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	A	+	+	+	+	+	**47**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	**49**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	A	+	+	+	+	+	**47**
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	A	+	+	+	+	+	**48**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	A	+	+	+	+	+	**47**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Angiectasis						1																			1	**4 1.0**
Basophilic Focus							X			X		X									X	X				**7**
Basophilic Focus, Multiple		X		X	X	X		X	X		X		X	X			X	X	X	X			X	X	X	**33**
Clear Cell Focus																										**1**
Clear Cell Focus, Multiple	X	X			X	X	X	X				X	X	X			X	X	X		X		X	X	X	**25**
Cyst																									2	**1 2.0**
Eosinophilic Focus							X		X								X	X			X					**10**
Eosinophilic Focus, Multiple						X		X																X		**11**
Fatty Change	4	1	2			1	1	1		4		1	3	1				1	1	3	1		1			**28 1.6**
Fibrosis																										**1 1.0**
Hyperplasia, Nodular																										**2 2.5**
Pigmentation																										**1 1.0**
Bile Duct, Cyst																									1	**4 1.5**

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WISTAR HAN RATS FEMALE

15 MG/KG

DAY ON TEST	0676	0736	0569	0701	0736	0736	0610	0736	0736	0472	0735	0735	0676	0735	0715	0694	0732	0732	0732	0655	0732	0368	0732	0732	0732	
ANIMAL ID	00356	00357	00358	00359	00360	00361	00362	00363	00364	00365	00366	00367	00368	00369	00370	00371	00372	00373	00374	00375	00376	00377	00378	00379	00380	*** TOTALS**
Bile Duct, Cyst, Multiple																										**1 1.0**
Bile Duct, Hyperplasia								1	2		1			1		1		1								**16 1.1**
Hepatocyte, Degeneration																										**1 4.0**
Hepatocyte, Hypertrophy	3	2	2	3	3	3	3	3	3	3	3	3	3	3		3	3	3	4	3	3	4	3	3	3	**49 3.0**
Hepatocyte, Mitosis																										**1 2.0**
Hepatocyte, Necrosis																					1					**1 1.0**
Oval Cell, Hyperplasia								1					1													**3 1.0**
Mesentery				+													+			+						**9**
Fat, Necrosis																	2			1						**5 1.4**
Oral Mucosa																										**1**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	**49**
Atrophy								1																		**3 1.3**
Inflammation, Chronic																										**1 3.0**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	**49**
Inflammation, Chronic																										**1 1.0**
Duct, Parotid Gland, Inflammation, Acute			1	4																1						**4 2.5**
Parotid Gland, Atrophy			2																							**4 1.5**
Parotid Gland, Inflammation, Acute										1																**1 1.0**
Parotid Gland, Vacuolization Cytoplasmic	2		2							1			2													**7 1.6**
Sublingual Gland, Ectopic Tissue																										**1 2.0**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**
Edema										3																**2 2.5**
Hyperkeratosis	2									2			3							2			2			**7 2.3**
Inflammation, Acute																										**1 3.0**
Inflammation, Chronic										1			2										1			**3 1.3**
Inflammation, Chronic Active	1																									**2 2.0**

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WISTAR HAN RATS FEMALE

15 MG/KG

DAY ON TEST	067	073	056	070	073	073	061	073	073	047	073	073	067	073	071	069	073	073	073	065	073	036	073	073	073		
	6	6	9	1	6	6	0	6	6	2	5	5	6	5	5	4	2	2	2	5	2	8	2	2	2		
ANIMAL ID	00356	00357	00358	00359	00360	00361	00362	00363	00364	00365	00366	00367	00368	00369	00370	00371	00372	00373	00374	00375	00376	00377	00378	00379	00380	*** TOTALS**	
Mineralization						1																				**3**	**1.0**
Ulcer	1																									**3**	**2.0**
Epithelium, Hyperplasia	3									3			3										3			**6**	**3.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Erosion			1																							**1**	**1.0**
Inflammation, Acute			2							1																**2**	**1.5**
Mineralization		1			1	1			1		1	1										1	1			**14**	**1.0**
Necrosis																										**1**	**1.0**
Ulcer										2																**1**	**2.0**
CARDIOVASCULAR SYSTEM																											
Blood Vessel				+						+			+													**3**	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Cardiomyopathy															1	1			1				1	1		**10**	**1.2**
ENDOCRINE SYSTEM																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Angiectasis	1	1		1			1	1	1	1	1	1	2	1		1	1	4	2	1	3	1	1	1	1	**44**	**1.5**
Hematopoietic Cell Proliferation			1																							**3**	**1.0**
Hyperplasia, Focal		1									1	1			1	1			3					1		**12**	**1.3**
Hypertrophy, Focal								1			1			1									1		1	**12**	**1.3**
Vacuolization Cytoplasmic										1		1		1												**7**	**1.0**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperplasia, Focal																							1			**1**	**1.0**
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	**49**	

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DAY ON TEST / WISTAR HAN RATS FEMALE / 15 MG/KG / ANIMAL ID	0676 0356	0736 0357	0569 0358	0701 0359	0736 0360	0736 0361	0610 0362	0736 0363	0736 0364	0472 0365	0735 0366	0735 0367	0676 0368	0735 0369	0715 0370	0694 0371	0732 0372	0732 0373	0732 0374	0655 0375	0732 0376	0368 0377	0732 0378	0732 0379	0732 0380	* TOTALS	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Pigmentation, Hemosiderin															1								2			**2**	**1.5**
Pars Distalis, Cyst, Multiple														X												**3**	
Pars Distalis, Hyperplasia, Focal				2	1	2		2	1			1							2						1	**17**	**1.4**
Pars Nervosa, Cyst, Multiple																										**1**	**2.0**
Pars Nervosa, Inflammation, Chronic																									2	**1**	**2.0**
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	A	+	+	+	+	+	**47**	
C-cell, Hyperplasia	2	3	3	2	2	1	1	1	2	2	2	2	1	2		1	2	1	3		3		2	2	3	**46**	**1.8**
Follicle, Cyst																										**2**	
Follicle, Hypertrophy	1	1	3				1				2			3			1		1		2		1	1		**22**	**1.4**
Follicular Cell, Hyperplasia		2									2					1									2	**4**	**1.8**
Follicular Cell, Hypertrophy																										**1**	**1.0**
GENERAL BODY SYSTEM																											
Tissue NOS				+			+																			**4**	
Fibrosis																										**1**	**1.0**
GENITAL SYSTEM																											
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic																1										**1**	**1.0**
Inflammation, Chronic Active							1																			**1**	**1.0**
Duct, Cyst							2														2					**3**	**2.0**
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Atrophy																										**1**	**2.0**

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DAY ON TEST / WISTAR HAN RATS FEMALE / 15 MG/KG / ANIMAL ID	0676 0035 6	0736 0035 7	0569 0035 8	0701 0035 9	0736 0036 0	0736 0036 1	0610 0036 2	0736 0036 3	0736 0036 4	0472 0036 5	0735 0036 6	0735 0036 7	0676 0036 8	0735 0036 9	0715 0037 0	0694 0037 1	0732 0037 2	0732 0037 3	0732 0037 4	0655 0037 5	0732 0037 6	0368 0037 7	0732 0037 8	0732 0037 9	0732 0038 0	* TOTALS	
Cyst	1						3																		2	**8**	**2.0**
Cyst, Multiple																										**1**	**4.0**
Hyperplasia, Tubulostromal																								3		**3**	**2.3**
Follicle, Cyst																								1		**3**	**2.0**
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Decidual Reaction																										**1**	**2.0**
Dilatation																										**1**	**4.0**
Hemorrhage				2																						**1**	**2.0**
Hyperplasia, Atypical																					1					**2**	**1.0**
Metaplasia, Squamous																										**1**	**1.0**
Cervix, Hyperkeratosis																										**1**	**4.0**
Endometrium, Hyperplasia, Cystic		2		2							3		2			1			4		4			2	4	**17**	**2.5**
Myometrium, Degeneration, Mucoid																										**1**	**1.0**
Serosa, Cyst																				1						**1**	**1.0**
Vagina	M	M	M	M	M	M	M	M	M	M	M	M	M	+	M	M	M	M	M	M	M	M	M	M	M	**2**	
HEMATOPOIETIC SYSTEM																											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Myeloid Cell, Hyperplasia			3																							**7**	**2.3**
Lymph Node		+			+																				+	**6**	
Inguinal, Pigmentation					1																				1	**2**	**1.0**
Mediastinal, Ectasia																										**1**	**1.0**
Mediastinal, Hyperplasia, Plasma Cell																										**1**	**4.0**
Mediastinal, Pigmentation		2																								**1**	**2.0**
Mediastinal, Pigmentation, Hemosiderin																										**1**	**1.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	

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DAY ON TEST / WISTAR HAN RATS FEMALE / 15 MG/KG / ANIMAL ID	0676 0035 6	0736 0035 7	0569 0035 8	0701 0035 9	0736 0036 0	0736 0036 1	0610 0036 2	0736 0036 3	0736 0036 4	0472 0036 5	0735 0036 6	0735 0036 7	0676 0036 8	0735 0036 9	0715 0037 0	0694 0037 1	0732 0037 2	0732 0037 3	0732 0037 4	0655 0037 5	0732 0037 6	0368 0037 7	0732 0037 8	0732 0037 9	0732 0038 0	* TOTALS	
Ectasia																										**4**	**1.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Ectasia																										**2**	**1.5**
Hemorrhage																	1									**3**	**2.0**
Pigmentation, Hemosiderin			1																							**1**	**1.0**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hematopoietic Cell Proliferation		1				1	3							2			2				1	2	3		1	**19**	**1.8**
Hemorrhage			3																							**1**	**3.0**
Pigmentation	2	1		2	1				1	2	1	1	2			1	2	1	2	2		1		1	1	**32**	**1.3**
Lymphoid Follicle, Atrophy				2																2						**3**	**2.3**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	**48**	
Atrophy	3		4	4						1		1	2							2			1			**18**	**2.1**
Hemorrhage							2													2						**5**	**1.6**
INTEGUMENTARY SYSTEM																											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Fibrosis																			2							**2**	**2.0**
Galactocele	3																									**3**	**2.3**
Hyperplasia			1	1	1	1		1	2				2		1	2		1		1		2		2		**24**	**1.5**
Inflammation, Granulomatous	1																									**1**	**1.0**
Duct, Cyst																										**1**	**1.0**
Duct, Dilatation	1							1		3	1								1				1		1	**13**	**1.5**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Hyperkeratosis					1													1								**2**	**1.0**
Inflammation, Acute					1																					**2**	**1.0**
Inflammation, Chronic																		2								**1**	**2.0**

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DAY ON TEST / WISTAR HAN RATS FEMALE / 15 MG/KG / ANIMAL ID	0676 0036	0736 0037	0569 0038	0701 0039	0736 0040	0736 0041	0610 0042	0736 0043	0736 0044	0472 0045	0735 0046	0735 0047	0676 0048	0735 0049	0715 0050	0694 0051	0732 0052	0732 0053	0732 0054	0655 0055	0732 0056	0368 0057	0732 0058	0732 0059	0732 0060	* TOTALS	
Ulcer					1																					**2**	**1.5**
Epidermis, Hyperplasia					1																					**1**	**1.0**
MUSCULOSKELETAL SYSTEM																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Compression	3									3			2			3				1		1				**11**	**2.4**
Hemorrhage, Multifocal															2											**1**	**2.0**
Peripheral Nerve																										**1**	
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Infiltration Cellular, Histiocyte	1		1		1						1			1			1	1	1				1			**22**	**1.0**
Mineralization																										**1**	**1.0**
Alveolar Epithelium, Hyperplasia																										**1**	**1.0**
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Acute																										**1**	**3.0**
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
Inflammation, Chronic																			1							**1**	**1.0**
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	A	+	+	+	+	+	**47**	

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Retina, Atrophy						2		2			2					2					2					**9**	**1.9**
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**50**	
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	**49**	
Cyst																										**1**	
Hydronephrosis																										**1**	**4.0**
Inflammation, Chronic																										**1**	**1.0**
Inflammation, Chronic Active																										**1**	**2.0**
Nephropathy	1			1					1		1		1	1		1									1	**17**	**1.0**
Pigmentation											1							1						1		**3**	**1.0**
Pelvis, Inflammation, Chronic Active													1				1									**6**	**1.0**
Pelvis, Mineralization	1	1	1		1	1			1	1			1			1			1	1	1	1				**23**	**1.0**
Renal Tubule, Dilatation			2																							**1**	**2.0**
Transitional Epithelium, Hyperplasia																										**1**	**2.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	**49**	

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DAY ON TEST	0735	0003	0735	0647	0729	0729	0677	0729	0553	0736	0736	0736	0619	0736	0736	0736	0702	0729	0729	0645	0729	0003	0630	0537	0735	
WISTAR HAN RATS FEMALE																										
50 MG/KG																										
ANIMAL ID	0038 2	0038 3	0038 4	0038 5	0038 6	0038 7	0038 8	0038 9	0039 1	0039 2	0039 3	0039 5	0039 6	0039 7	0039 8	0039 9	0040 0	0040 1	0040 2	0040 3	0040 4	0040 5	0040 6	0040 7	0040 8	**females (cont...)**
ALIMENTARY SYSTEM																										
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	M	+	A	+	+	+	
Intestine Large, Colon	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	M	+	+	+	
Intestine Small, Duodenum	+	A	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	M	+	A	+	+	+	
Intestine Small, Ileum	+	A	+	A	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	M	+	+	+	+	+	
Intestine Small, Jejunum	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	M	+	+	+	+	+	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	A	+	+	+	+	+	
Angiectasis																										
Basophilic Focus					X						X		X													
Basophilic Focus, Multiple	X		X			X		X	X	X		X		X		X		X					X	X	X	
Cholangiofibrosis					3																					
Clear Cell Focus, Multiple	X				X	X		X	X	X	X	X		X	X			X	X		X			X	X	
Congestion																								1		
Eosinophilic Focus						X	X				X		X											X		
Eosinophilic Focus, Multiple	X		X		X			X	X	X						X		X	X		X					
Fatty Change	1	2	1	1	1			2	1		1	1	3	1	1	2		1				1	1	2	1	
Hepatodiaphragmatic Nodule	X																									
Hyperplasia, Nodular												2				2									3	
Bile Duct, Cyst					3	2																			X	
Bile Duct, Cyst, Multiple																		2								

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+ .. 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

WISTAR HAN RATS FEMALE

50 MG/KG

DAY ON TEST	073 5	000 3	073 5	064 7	072 9	072 9	067 7	072 9	055 3	073 6	073 6	073 6	061 9	073 6	073 6	073 6	070 2	072 9	072 9	064 5	072 9	000 3	063 0	053 7	073 5	
ANIMAL ID	00382	00383	00384	00385	00386	00387	00388	00389	00391	00392	00393	00395	00396	00397	00398	00399	00400	00401	00402	00403	00404	00405	00406	00407	00408	**females (cont...)**
Bile Duct, Hyperplasia	1				2	1		1			1							2	1							
Bile Duct, Inflammation, Chronic Active																										
Hepatocyte, Hypertrophy	4		4	3	4	4	4	4	4	4	4	4	4	4	4	4		4	4		4		4	4	4	
Hepatocyte, Necrosis				1			1		2																	
Oval Cell, Hyperplasia	1					1																		1		
Mesentery															+											
Fat, Necrosis															1											
Oral Mucosa																										
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	
Atrophy																1										
Salivary Glands	+	+	+	A	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	
Duct, Parotid Gland, Inflammation, Acute													1													
Parotid Gland, Atrophy													2										1			
Parotid Gland, Basophilic Focus																		1								
Parotid Gland, Necrosis																										
Parotid Gland, Vacuolization Cytoplasmic													1													
Sublingual Gland, Ectopic Tissue			2																							
Submandibular Gland, Ectopic Tissue																									1	
Submandibular Gland, Inflammation, Chronic			1																							
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	
Hyperkeratosis													3				2									
Inflammation, Chronic													1				2									
Inflammation, Chronic Active																										
Mineralization																										
Ulcer													1				1									

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DAY ON TEST	073	000	073	064	072	072	067	072	055	073	073	073	061	073	073	073	070	072	072	064	072	000	063	053	073	
WISTAR HAN RATS FEMALE																										
50 MG/KG																										
ANIMAL ID	0038 2	0038 3	0038 4	0038 5	0038 6	0038 7	0038 8	0038 9	0039 1	0039 2	0039 3	0039 5	0039 6	0039 7	0039 8	0039 9	0040 0	0040 1	0040 2	0040 3	0040 4	0040 5	0040 6	0040 7	0040 8	**females (cont...)**
Epithelium, Hyperplasia													2				3									
Stomach, Glandular	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	
Inflammation, Chronic																										
Mineralization			1			1		1										1	1							
Ulcer																										
CARDIOVASCULAR SYSTEM																										
Blood Vessel	+																		+							
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Cardiomyopathy								1								1										
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	A	+	+	+	+	+	
Angiectasis			1		1	2		1	1	1	1	2	2	1	1			1	1		1		2	1		
Hematopoietic Cell Proliferation																										
Hyperplasia, Focal	1				1					1	1				1			1	2		1					
Hypertrophy, Focal	2						1	1		1					1	2					2					
Vacuolization Cytoplasmic			1						1			1											1			
Adrenal Medulla	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	
Islets, Pancreatic	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	
Parathyroid Gland	+	+	+	+	+	+	M	+	+	+	M	M	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pituitary Gland	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	
Pars Distalis, Cyst																										

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DAY ON TEST	07 35	00 03	07 35	06 47	07 29	07 29	06 77	07 29	05 53	07 36	07 36	07 36	06 19	07 36	07 36	07 36	07 02	07 29	07 29	06 45	07 29	00 03	06 30	05 37	07 35	
WISTAR HAN RATS FEMALE																										
50 MG/KG																										
ANIMAL ID	00 382	00 383	00 384	00 385	00 386	00 387	00 388	00 389	00 391	00 392	00 393	00 395	00 396	00 397	00 398	00 399	00 400	00 401	00 402	00 403	00 404	00 405	00 406	00 407	00 408	**females (cont...)**
Pars Distalis, Hyperplasia, Focal					1			2						1					2							
Pars Distalis, Vacuolization Cytoplasmic																										
Pars Intermedia, Hyperplasia, Focal																2										
Pars Nervosa, Inflammation, Chronic																2										
Thyroid Gland	+	+	+	A	+	+	M	+	+	+	+	+	+	+	+	+	A	+	+	A	+	+	+	+	+	
Mineralization						1																				
C-cell, Hyperplasia	2		1		2	1		2	1	2	2	2		2	2	2		1	1		2		2	1	2	
Follicle, Hypertrophy		3	2		2					3	2	2	2	1	1	2		2	2		1			1	2	
Follicular Cell, Hyperplasia					1			1		2		1														
GENERAL BODY SYSTEM																										
Tissue NOS				+												+										
Fibrosis																1										
GENITAL SYSTEM																										
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	
Inflammation, Chronic Active																										
Duct, Cyst													3													
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	
Atrophy																										
Cyst	4		3			4					2															
Hyperplasia, Tubulostromal															3											
Follicle, Cyst																		2	1							
Follicle, Cyst, Multiple																									2	
Granulosa Cell, Hyperplasia, Multifocal																		2								
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	

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DAY ON TEST	07 35	00 03	07 35	06 47	07 29	07 29	06 77	07 29	05 53	07 36	07 36	07 36	06 19	07 36	07 36	07 36	07 02	07 29	07 29	06 45	07 29	00 03	06 30	05 37	07 35	
WISTAR HAN RATS FEMALE																										
50 MG/KG																										
ANIMAL ID	00 38 2	00 38 3	00 38 4	00 38 5	00 38 6	00 38 7	00 38 8	00 38 9	00 39 1	00 39 2	00 39 3	00 39 5	00 39 6	00 39 7	00 39 8	00 39 9	00 40 0	00 40 1	00 40 2	00 40 3	00 40 4	00 40 5	00 40 6	00 40 7	00 40 8	**females (cont...)**
Cyst, Squamous					2																					
Decidual Reaction																										
Dilatation																										
Metaplasia, Squamous			2																							
Cervix, Hyperplasia, Squamous																					1					
Endometrium, Hyperplasia, Cystic	3					3								1		1			4				1		4	
Vagina	M	M	M	M	M	+	M	M	M	M	M	M	M	M	M	M	+	M	M	M	M	M	M	M	M	
HEMATOPOIETIC SYSTEM																										
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	
Fibrosis																										
Myeloid Cell, Hyperplasia			2	3			2		2	2						2	2						2			
Lymph Node		+				+				+												+		+		
Iliac, Hyperplasia, Lymphoid																										
Mediastinal, Hemorrhage																										
Mediastinal, Hyperplasia, Lymphoid						2																				
Mediastinal, Pigmentation, Hemosiderin						2				1																
Pancreatic, Pigmentation, Hemosiderin																								2		
Popliteal, Hemorrhage																						1				
Popliteal, Hyperplasia, Lymphoid																										
Popliteal, Pigmentation		1																				1				
Lymph Node, Mandibular	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia			1																							
Hyperplasia, Lymphoid																										
Hyperplasia, Plasma Cell																										
Lymph Node, Mesenteric	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	

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DAY ON TEST	073	000	073	064	072	072	067	072	055	073	073	073	061	073	073	073	070	072	072	064	072	000	063	053	073
WISTAR HAN RATS FEMALE	5	3	5	7	9	9	7	9	3	6	6	6	9	6	6	6	2	9	9	5	9	3	0	7	5
50 MG/KG ANIMAL ID	00382	00383	00384	00385	00386	00387	00388	00389	00391	00392	00393	00395	00396	00397	00398	00399	00400	00401	00402	00403	00404	00405	00406	00407	00408	**females (cont...)**
Ectasia					1																					
Hemorrhage																										
Spleen	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	M	+	+	M	+	+	+	+	+	
Angiectasis																2										
Hematopoietic Cell Proliferation	1	3			1				3	2	1			1		2						3			1	
Pigmentation	2		1			1		2			1	2	2	1	2				1				3	1		
Lymphoid Follicle, Atrophy																										
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	A	+	+	+	+	+	
Atrophy				3						1						1										
Cyst																					3					
Hemorrhage																										
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Galactocele						2																				
Hyperplasia							2	2				2	1	2	1	2	2	2								
Inflammation, Chronic Active																										
Duct, Dilatation	1		1			1				1							2									
Duct, Inflammation, Acute																							1			
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation, Chronic Active																2										
Ulcer																2										
Epidermis, Hyperplasia	1															2										
MUSCULOSKELETAL SYSTEM																										

DAY ON TEST / WISTAR HAN RATS FEMALE / 50 MG/KG / ANIMAL ID	0735 0038 2	0003 0038 3	0735 0038 4	0647 0038 5	0729 0038 6	0729 0038 7	0677 0038 8	0729 0038 9	0553 0039 1	0736 0039 2	0736 0039 3	0736 0039 5	0619 0039 6	0736 0039 7	0736 0039 8	0736 0039 9	0702 0040 0	0729 0040 1	0729 0040 2	0645 0040 3	0729 0040 4	0003 0040 5	0630 0040 6	0537 0040 7	0735 0040 8	females (cont...)
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Compression	2					1						3	3				2						3	4		
RESPIRATORY SYSTEM																										
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Infiltration Cellular, Histiocyte	1		1		1	1	1		1	1	1	1		1	1				1					1	2	
Inflammation, Acute										1																
Inflammation, Chronic																										
Mineralization																										
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	
Inflammation, Acute																	3									
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	A	+	+	+	
SPECIAL SENSES SYSTEM																										
Eye	+	+	+	M	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	A	+	+	+	+	+	
Retina, Atrophy									1	2		2	2			2										
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
URINARY SYSTEM																										
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	A	+	+	+	+	+	
Casts Protein																					1					

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DAY ON TEST	0735	0003	0735	0647	0729	0729	0677	0729	0553	0736	0736	0736	0619	0736	0736	0736	0702	0729	0729	0645	0729	0003	0630	0537	0735	
WISTAR HAN RATS FEMALE																										
50 MG/KG																										
ANIMAL ID	00382	00383	00384	00385	00386	00387	00388	00389	00391	00392	00393	00395	00396	00397	00398	00399	00400	00401	00402	00403	00404	00405	00406	00407	00408	**females (cont...)**
Cyst	X																									
Cyst, Multiple				X																						
Hydronephrosis						3							3									2				
Nephropathy			1			1		1	1	1		1	1	1					1						1	
Pigmentation																										
Pelvis, Inflammation, Chronic Active								1		1																
Pelvis, Mineralization	2		1			1		1	1	1		1			1	1			1				1			
Transitional Epithelium, Hyperplasia																										
Ureter						+																				
Inflammation, Chronic						2																				
Mineralization						2																				
Urinary Bladder	+	+	+	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	
Inflammation, Chronic																										

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DAY ON TEST	0597	0735	0396	0732	0729	0729	0385	0686	0617	0735	0735	0687	0627	0669	0735	0735	0735	0735	0735	0225	0490	0736	0543	0736	
WISTAR HAN RATS FEMALE																									
50 MG/KG																									
ANIMAL ID	00409	00410	00412	00415	00416	00417	00418	00419	00420	00421	00423	00425	00427	00428	00429	00430	00431	00432	00434	00435	00436	00438	00439	00440	*** TOTALS**
ALIMENTARY SYSTEM																									
Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Intestine Large, Cecum	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	M	+	A	+	**40**
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	**46**
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	**45**
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	M	+	+	+	**42**
Intestine Small, Ileum	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	M	+	+	+	**41**
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	M	+	A	+	**42**
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**47**
Angiectasis													1		1										**2 1.0**
Basophilic Focus																		X				X			**5**
Basophilic Focus, Multiple	X	X		X	X	X		X	X	X			X		X	X	X		X		X			X	**28**
Cholangiofibrosis					2				2																**3 2.3**
Clear Cell Focus, Multiple		X		X	X	X				X	X		X		X	X	X	X	X		X	X	X	X	**31**
Congestion																									**1 1.0**
Eosinophilic Focus				X					X			X	X	X									X	X	**12**
Eosinophilic Focus, Multiple	X	X			X		X	X		X						X	X	X							**19**
Fatty Change	2	1	1		1	1		2	1	1	1	1	1	1	2	1	1	1	1	1	1		2	1	**39 1.3**
Hepatodiaphragmatic Nodule																									**1**
Hyperplasia, Nodular					2										3			3	3						**7 2.6**
Bile Duct, Cyst									1		2											2			**6 2.0**
Bile Duct, Cyst, Multiple																									**1 2.0**

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WISTAR HAN RATS FEMALE

50 MG/KG

DAY ON TEST	0597	0735	0396	0732	0729	0729	0385	0686	0617	0735	0735	0687	0627	0669	0735	0735	0735	0735	0735	0225	0490	0736	0543	0736	
ANIMAL ID	00409	00410	00412	00415	00416	00417	00418	00419	00420	00421	00423	00425	00427	00428	00429	00430	00431	00432	00434	00435	00436	00438	00439	00440	*** TOTALS**
Bile Duct, Hyperplasia					1	1			3	1		2				1		1							**14 1.4**
Bile Duct, Inflammation, Chronic Active					1																				**1 1.0**
Hepatocyte, Hypertrophy	4	4	4	3	4	4	4	4	4	4	4	4	3	4	4	3	4	4	4	3	4	4	4	4	**45 3.9**
Hepatocyte, Necrosis							2	1						1							2		1		**8 1.4**
Oval Cell, Hyperplasia						1			2								1	2	1		1	1			**10 1.2**
Mesentery	+			+								+	+	+											**6**
Fat, Necrosis	1			2								1	2	2											**6 1.5**
Oral Mucosa														+											**1**
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	**47**
Atrophy									1	1						1								1	**5 1.0**
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	**45**
Duct, Parotid Gland, Inflammation, Acute																									**1 1.0**
Parotid Gland, Atrophy								2			1													1	**5 1.4**
Parotid Gland, Basophilic Focus																									**1 1.0**
Parotid Gland, Necrosis							1																		**1 1.0**
Parotid Gland, Vacuolization Cytoplasmic																							1		**2 1.0**
Sublingual Gland, Ectopic Tissue																									**1 2.0**
Submandibular Gland, Ectopic Tissue																									**1 1.0**
Submandibular Gland, Inflammation, Chronic																									**1 1.0**
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**
Hyperkeratosis			2														1								**4 2.0**
Inflammation, Chronic																									**2 1.5**
Inflammation, Chronic Active			2																						**1 2.0**
Mineralization			2																						**1 2.0**
Ulcer			2																						**3 1.3**

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2) Mild 4) Marked

DAY ON TEST	059	073	039	073	072	072	038	068	061	073	073	068	062	066	073	073	073	073	073	073	022	049	073	054	073	
WISTAR HAN RATS FEMALE	5	5	6	2	9	9	5	6	7	5	5	7	7	9	5	5	5	5	5	5	5	0	6	3	6	
50 MG/KG	00409	00410	00412	00415	00416	00417	00418	00419	00420	00421	00423	00425	00427	00428	00429	00430	00431	00432	00434	00435	00436	00438	00439	00440	*** TOTALS**	
ANIMAL ID																										
Epithelium, Hyperplasia			2														1								**4**	**2.0**
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	**46**	
Inflammation, Chronic																		2							**1**	**2.0**
Mineralization										1								1							**7**	**1.0**
Ulcer								1																	**1**	**1.0**
CARDIOVASCULAR SYSTEM																										
Blood Vessel																							+		**3**	
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**	
Cardiomyopathy					1														1						**4**	**1.0**
ENDOCRINE SYSTEM																										
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**46**	
Angiectasis	1	1	1	1	2		1	1	1	2		1	1	1	1	2	1	1	1				4		**34**	**1.3**
Hematopoietic Cell Proliferation																			1						**1**	**1.0**
Hyperplasia, Focal	1	1		1				1				1		1	1	1	1	2				2			**19**	**1.2**
Hypertrophy, Focal					1					2	1					1	1		1					1	**14**	**1.3**
Vacuolization Cytoplasmic						1					1		1					1					3		**9**	**1.2**
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**47**	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**47**	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**46**	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**47**	
Pars Distalis, Cyst																		X							**1**	

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WISTAR HAN RATS FEMALE

50 MG/KG

DAY ON TEST	0597	0735	0396	0732	0729	0729	0385	0686	0617	0735	0735	0687	0627	0669	0735	0735	0735	0735	0735	0225	0490	0736	0543	0736	
ANIMAL ID	00409	00410	00412	00415	00416	00417	00418	00419	00420	00421	00423	00425	00427	00428	00429	00430	00431	00432	00434	00435	00436	00438	00439	00440	*** TOTALS**
Pars Distalis, Hyperplasia, Focal					1						1					1	1		2						**9 1.3**
Pars Distalis, Vacuolization Cytoplasmic																				1					**1 1.0**
Pars Intermedia, Hyperplasia, Focal																									**1 2.0**
Pars Nervosa, Inflammation, Chronic																									**1 2.0**
Thyroid Gland	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	A	+	**42**
Mineralization																									**1 1.0**
C-cell, Hyperplasia		2	2	2	1	2	1	3	3	3	3	2	3	2	3	1	3	1	2			3		3	**38 2.0**
Follicle, Hypertrophy		1	1	2	1	1		2	4	3	3	2	2	1	2	1	2	1	2	2		3		3	**35 1.9**
Follicular Cell, Hyperplasia						2							1												**6 1.3**
GENERAL BODY SYSTEM																									
Tissue NOS																									**2**
Fibrosis																									**1 1.0**
GENITAL SYSTEM																									
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	**47**
Inflammation, Chronic Active						3													3						**2 3.0**
Duct, Cyst																		1						3	**3 2.3**
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	**46**
Atrophy																		3						3	**2 3.0**
Cyst						2	2						2	1											**8 2.5**
Hyperplasia, Tubulostromal																									**1 3.0**
Follicle, Cyst		2		2												1									**5 1.6**
Follicle, Cyst, Multiple																									**1 2.0**
Granulosa Cell, Hyperplasia, Multifocal																									**1 2.0**
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	**47**

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WISTAR HAN RATS FEMALE																									
50 MG/KG																									
ANIMAL ID	00409	00410	00412	00415	00416	00417	00418	00419	00420	00421	00423	00425	00427	00428	00429	00430	00431	00432	00434	00435	00436	00438	00439	00440	*** TOTALS**
Cyst, Squamous																									**1 2.0**
Decidual Reaction															3										**1 3.0**
Dilatation																2									**1 2.0**
Metaplasia, Squamous			1		1	1																			**4 1.3**
Cervix, Hyperplasia, Squamous																		4							**2 2.5**
Endometrium, Hyperplasia, Cystic		1	2	3		3					2			4	2										**14 2.4**
Vagina	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	**2**
HEMATOPOIETIC SYSTEM																									
Bone Marrow	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	**46**
Fibrosis	1																								**1 1.0**
Myeloid Cell, Hyperplasia							3	2							2										**11 2.2**
Lymph Node			+				+						+	+											**9**
Iliac, Hyperplasia, Lymphoid							2																		**1 2.0**
Mediastinal, Hemorrhage													1												**1 1.0**
Mediastinal, Hyperplasia, Lymphoid																									**1 2.0**
Mediastinal, Pigmentation, Hemosiderin													1	2											**4 1.5**
Pancreatic, Pigmentation, Hemosiderin																									**1 2.0**
Popliteal, Hemorrhage																									**1 1.0**
Popliteal, Hyperplasia, Lymphoid			1																						**1 1.0**
Popliteal, Pigmentation			1																						**3 1.0**
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**48**
Ectasia																									**1 1.0**
Hyperplasia, Lymphoid							1												3						**2 2.0**
Hyperplasia, Plasma Cell																				2					**1 2.0**
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**46**

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DAY ON TEST	059	073	039	073	072	072	038	068	061	073	073	068	062	066	073	073	073	073	073	022	049	073	054	073	
WISTAR HAN RATS FEMALE	5	5	6	2	9	9	5	6	7	5	5	7	7	9	5	5	5	5	5	5	0	6	3	6	
50 MG/KG																									
ANIMAL ID	00409	00410	00412	00415	00416	00417	00418	00419	00420	00421	00423	00425	00427	00428	00429	00430	00431	00432	00434	00435	00436	00438	00439	00440	*** TOTALS**
Ectasia																									**1 1.0**
Hemorrhage									3																**1 3.0**
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**45**
Angiectasis																									**1 2.0**
Hematopoietic Cell Proliferation			1				3						2		3				1			1	2		**17 1.8**
Pigmentation	2	1	2	1	1	2		2	1	2	1	2		1				1		2		1			**27 1.5**
Lymphoid Follicle, Atrophy								1																	**1 1.0**
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	**46**
Atrophy	3							3	1						2		2				4				**9 2.2**
Cyst																									**1 3.0**
Hemorrhage	4																								**1 4.0**
INTEGUMENTARY SYSTEM																									
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	+	**48**
Galactocele			1		2																				**3 1.7**
Hyperplasia	2	2			1					2		2			1	2	1			1		2			**19 1.7**
Inflammation, Chronic Active			2																						**1 2.0**
Duct, Dilatation											2														**6 1.3**
Duct, Inflammation, Acute																									**1 1.0**
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**
Inflammation, Chronic Active																									**1 2.0**
Ulcer																									**1 2.0**
Epidermis, Hyperplasia																									**2 1.5**
MUSCULOSKELETAL SYSTEM																									

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DAY ON TEST / WISTAR HAN RATS FEMALE / 50 MG/KG / ANIMAL ID	0597 0409	0735 0410	0396 0412	0732 0415	0729 0416	0729 0417	0385 0418	0686 0419	0617 0420	0735 0421	0735 0423	0687 0425	0627 0427	0669 0428	0735 0429	0735 0430	0735 0431	0735 0432	0735 0434	0225 0435	0490 0436	0736 0438	0543 0439	0736 0440	* TOTALS		
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**		
NERVOUS SYSTEM																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**		
Compression	1		3					1	3			1		3											**13**	**2.3**	
RESPIRATORY SYSTEM																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**		
Infiltration Cellular, Histiocyte	1	2	1	1			1	1	1	1			1	1	1		1	1	1				2	1	**30**	**1.1**	
Inflammation, Acute																									**1**	**1.0**	
Inflammation, Chronic		1																							**1**	**1.0**	
Mineralization																			1						**1**	**1.0**	
Nose	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**47**		
Inflammation, Acute																									**1**	**3.0**	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**47**		
SPECIAL SENSES SYSTEM																											
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**45**		
Retina, Atrophy						1						2			2				2					2	**10**	**1.8**	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**49**		
URINARY SYSTEM																											
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	**47**		
Casts Protein																1									**2**	**1.0**	

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WISTAR HAN RATS FEMALE

50 MG/KG

DAY ON TEST	059	073	039	073	072	072	038	068	061	073	073	068	062	066	073	073	073	073	073	073	022	049	073	054	073	
ANIMAL ID	0040	0041	0041	0041	0041	0041	0041	0041	0042	0042	0042	0042	0042	0042	0042	0043	0043	0043	0043	0043	0043	0043	0043	0043	0044	*** TOTALS**
Cyst																										**1**
Cyst, Multiple																										**1**
Hydronephrosis			3			3		1																		**6** **2.5**
Nephropathy	1					1											1		1					2		**15** **1.1**
Pigmentation														1				1			1				1	**4** **1.0**
Pelvis, Inflammation, Chronic Active																			1							**3** **1.0**
Pelvis, Mineralization				1	1					1		1	1	1			1		1							**19** **1.1**
Transitional Epithelium, Hyperplasia										2				2												**2** **2.0**
Ureter																										**1**
Inflammation, Chronic																										**1** **2.0**
Mineralization																										**1** **2.0**
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	**45**
Inflammation, Chronic					1																					**1** **1.0**

*** END OF REPORT ***

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