

**Experiment Number:** 20006 - 03  
**Test Type:** CHRONIC  
**Route:** GAVAGE  
**Species/Strain:** RATS/HSD

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
Indole-3-carbinol  
**CAS Number:** 700-06-1

**Date Report Requested:** 04/16/2013  
**Time Report Requested:** 09:53:55  
**First Dose M/F:** 03/14/07 / 03/15/07  
**Lab:** BAT

F1\_HSD

**NTP Study Number:** C20006B  
**Lock Date:** 06/21/2010  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.1.1\_001  
**PWG Approval Date:** NONE

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 Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg	DAY ON TEST																				males (cont...)				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0			
	7	7	6	1	7	7	7	4	6	6	6	4	6	6	5	6	6	5	7	5		5	6	7	6
	2	2	3	9	2	2	2	5	8	3	6	8	3	8	8	9	9	3	7	2	0	7	4	2	8
	7	7	4	7	7	8	8	0	9	1	6	2	8	5	5	9	5	5	5	9	5	5	0	1	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Cecum Necrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	3	
Intestine Large, Colon Erosion	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	A	+	+	+	+	A	+	A	+	+	+	+	+	+	+	A	A	+	+	+	+	A	
Intestine Small, Ileum	+	+	A	+	+	+	+	A	+	A	+	A	+	A	+	+	+	A	A	+	A	+	+	A	A
Intestine Small, Jejunum	+	+	A	+	+	+	+	A	+	A	+	A	+	+	+	+	+	A	A	+	+	+	+	A	
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																									
Basophilic Focus																								X	
Clear Cell Focus	X	X			X		X					X													
Eosinophilic Focus	X	X				X						X							X		X				
Hepatodiaphragmatic Nodule																									
Mixed Cell Focus	X		X				X																		
Necrosis																		1						3	
Bile Duct, Fibrosis					3																				
Bile Duct, Hyperplasia																			1					2	
Periportal, Inflammation, Chronic Active					2																				

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

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg	DAY ON TEST																				ANIMAL ID	males (cont...)						
	0 7	0 7	0 6	0 1	0 7	0 7	0 7	0 4	0 6	0 6	0 6	0 4	0 6	0 6	0 5	0 6	0 6	0 5	0 7	0 5			0 5	0 6	0 7	0 6	0 7	0 6
Mesentery																												
Artery, Inflammation, Chronic Active																												
Fat, Necrosis																												
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acinus, Atrophy																												
Acinus, Hyperplasia	2				2			2			1		2			1	2			1	1			1	1			
Artery, Inflammation, Chronic Active								3			2	3		2		2	3	3	2			2		3		1		
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia	2		1	2				2				1	2		2	1		2				1				1		
Inflammation																1		3										
Necrosis																												4
Ulcer				1														2										
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Epithelium, Hyperplasia					1																							
Epithelium, Inflammation, Chronic Active										1										1		1						
Epithelium, Mineralization											3						2	3						2				
Epithelium, Necrosis								1																				
Tooth																												
Necrosis																												+
																												3

CARDIOVASCULAR SYSTEM

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Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg	DAY ON TEST																									males (cont...)
	07	07	06	01	07	07	07	04	06	06	06	04	06	06	05	06	06	05	07	05	05	06	07	06	06	
	27	27	34	97	27	28	28	58	89	31	66	82	38	85	85	99	95	35	75	29	05	05	04	22	81	
ANIMAL ID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	01	02	03	04	05	06	07	08	09	00	01	01	02	03	04	05	06	07	08	09	00	01	02	02	03	
Blood Vessel Dilatation	+																									
Inflammation, Chronic Active	2					2	2		2				3			2	3	3	2		1	2		2	2	
Heart Cardiomyopathy	2	1	2	1	1	3	2	2	3	3	3	3	2	3	3	3	3	3	3	3	2	3		3	3	
Mineralization Atrium, Thrombosis																										
Epicardium, Inflammation																										4
<b>ENDOCRINE SYSTEM</b>																										
Adrenal Cortex Degeneration, Cystic	+																									
Degeneration, Fatty																										2 2
Hyperplasia																										2 2 3
Necrosis																										1
Adrenal Medulla Angiectasis	+																									
Hyperplasia	2					4		1	2	3	1		2		1	1	1							1		
Islets, Pancreatic Hyperplasia	+																									2
Parathyroid Gland Hyperplasia	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	
																									3 4 2	
Pituitary Gland	+																									

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	0 7 2 7	0 7 2 7	0 6 3 4	0 1 9 7	0 7 2 7	0 7 2 8	0 4 2 8	0 6 5 0	0 6 8 9	0 6 3 1	0 6 6 6	0 4 8 2	0 6 8 5	0 6 8 5	0 5 9 9	0 6 6 5	0 6 3 5	0 7 2 9	0 5 0 5	0 5 7 5	0 6 4 5	0 7 2 0	0 6 4 5	0 7 2 0			0 6 2 1
Pars Distalis, Hyperplasia	2				1	1	3	3				2					2				1	1			1		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Thrombosis																											
C-cell, Hyperplasia																											
Follicular Cell, Hypertrophy		1			2					2			2	1			1	2					2	2		3	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																									
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cyst		2								3		2							3	3		2			
Fibrosis										1															
Inflammation										3															
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																									
Fibrosis													2												
Hyperplasia										1															
Inflammation, Acute																									
Necrosis																									3
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A +
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A +

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	DAY ON TEST																									
<b>HARLAN SPRAGUE DAWLEY RATS</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	7	7	6	1	7	7	7	4	6	6	6	6	4	6	6	5	6	6	5	7	5	5	6	7	6	
<b>MALE</b>	2	2	3	9	2	2	2	5	8	3	6	8	3	8	8	9	9	3	7	2	0	7	4	2	8	
<b>0 mg/kg</b>	7	7	4	7	7	8	8	0	9	1	6	2	8	5	5	9	5	5	5	9	5	5	5	0	1	
	ANIMAL ID																									
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	<b>males (cont...)</b>

Atrophy		4				4	1		1		2	3		2	2	1		1	1		3			
Artery, Inflammation, Chronic Active					1	3	3		2	3		3		2	4	2	1		2		3			
Interstitial Cell, Hyperplasia																								

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																								3	
Lymph Node							+																	+	
Mediastinal, Hemorrhage																								3	
Renal, Ectasia							3																		
Renal, Hemorrhage																									
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Plasma Cell																									
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphoid																									
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation	2	3			2	2	2		1			2				3			2	2			2		
Inflammation				2																					
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	+	
Atrophy	3	3	3	2	2	3	3		4		1	4	1	3	2	3			3		1	3	2	4	2
Epithelial Cell, Hyperplasia																									

**INTEGUMENTARY SYSTEM**

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	07	07	06	01	07	07	07	04	06	06	06	06	04	06	06	05	06	06	05	07			05	05	06	07
	27	27	34	97	27	28	28	50	89	31	66	82	38	85	85	99	95	35	79	20	75	45	24	28	81	
	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
	01	02	03	04	05	06	07	08	09	00	01	02	03	04	05	06	07	08	09	00	01	02	03	04	05	06

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Cyst Epithelial Inclusion		X							X										X						X
Inflammation												1													
Epidermis, Ulcer												3													

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Fibrous Osteodystrophy															3	3	3					3	3	3	3

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hemorrhage, Multifocal			1																			2			
Inflammation, Chronic	1		1		2		1		1	1									1			3			1
Necrosis																								3	
Alveolar Epithelium, Hyperplasia																									
Alveolus, Infiltration Cellular, Histiocyte			1				1			1	1		1	1		1		1		1					2
Alveolus, Mineralization																									
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Foreign Body																									X
Fungus																									
Inflammation						X																			

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<b>HARLAN SPRAGUE DAWLEY RATS</b> <b>MALE</b> <b>0 mg/kg</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ANIMAL ID	7	7	6	1	7	7	7	4	6	6	6	6	4	6	6	5	6	6	5	7	5	5	6	7	6	7	6	7	6	
		2	2	3	9	2	2	2	5	8	3	6	8	3	8	8	9	9	3	7	2	0	7	4	2	8	8	1	8	1	

males (cont...)

Inflammation, Chronic Active Respiratory Epithelium, Hyperplasia 2 1 2 1 1 1 3

Trachea Inflammation + + + + + + + + 2 +

SPECIAL SENSES SYSTEM

Eye Anterior Chamber, Inflammation, Acute Cornea, Inflammation, Acute + 1 1 1 2 2 2 4 2 2 3 3

Harderian Gland Pigmentation, Porphyrin + 3

Lacrimal Gland Degeneration + 2

URINARY SYSTEM

Kidney Nephropathy + 3 3 3 1 3 3 3 3 4 4 3 4 2 4 4 4 3 3 3 3 4 3 3 3

Urinary Bladder +

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	07	06	07	07	06	06	01	06	07	07	04	07	07	07	07	07	07	05	07	07		04	04		
ANIMAL ID	00026	00027	00028	00029	00030	00031	00032	00033	00034	00035	00036	00037	00038	00039	00040	00041	00042	00043	00044	00045	00046	00047	00048	00049	00050
	7	9	2	2	8	8	8	6	2	2	2	2	2	2	1	2	2	3	2	6	8	6	9	5	4
	3	3	9	7	5	4	8	9	8	8	1	7	8	8	8	6	9	9	7	8	8	9	4	4	

ALIMENTARY SYSTEM

Esophagus	+																							50	
Intestine Large, Cecum Necrosis	+																							50	1 3.0
Intestine Large, Colon Erosion	+																							50	1 3.0
Intestine Large, Rectum	+																							50	
Intestine Small, Duodenum	+																							43	
Intestine Small, Ileum	+																							35	
Intestine Small, Jejunum	+																							40	
Liver	+																							50	
Angiectasis	3																							1	3.0
Basophilic Focus																								3	
Clear Cell Focus	X																							14	
Eosinophilic Focus																								10	
Hepatodiaphragmatic Nodule																								2	
Mixed Cell Focus																								4	
Necrosis	3																							3	2.3
Bile Duct, Fibrosis																								2	2.0
Bile Duct, Hyperplasia	1 1																							7	1.1
Periportal, Inflammation, Chronic Active																								1	2.0

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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

1-4 .. Lesion qualified as:

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

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg	DAY ON TEST																				* TOTALS		
	07	06	07	07	06	06	01	06	07	07	04	07	07	07	07	07	07	05	07	07		07	04
ANIMAL ID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
Mesentery																							
Artery, Inflammation, Chronic Active																							
Fat, Necrosis																							
Oral Mucosa	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Acinus, Atrophy																							
Acinus, Hyperplasia	1			2		1											1				2		
Artery, Inflammation, Chronic Active		2	2	2	2			2	2	2					1			3				2	2
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Hyperplasia				2							1			1							3	2	2
Inflammation																							
Necrosis																							
Ulcer																							
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Epithelium, Hyperplasia																	1						
Epithelium, Inflammation, Chronic Active																							
Epithelium, Mineralization						3															2		2
Epithelium, Necrosis																							
Tooth																							
Necrosis																							

CARDIOVASCULAR SYSTEM

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Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg	DAY ON TEST																								* TOTALS		
	0727	0693	0729	0727	0685	0664	0168	0679	0778	0774	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777			
ANIMAL ID	00026	00007	00008	00009	00010	00011	00012	00013	00014	00015	00016	00017	00018	00019	00020	00021	00022	00023	00024	00025	00026	00027	00028	00029			
Blood Vessel Dilatation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Inflammation, Chronic Active	2	2	3	2	2			2	1	2		2	1		2			2	1			2	2	2	30		
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Cardiomyopathy	2	3	3	3	3	3	2	2	2	3	1	2	2	2	3	2		3	2	1	1	3		3	47		
Mineralization																									1		
Atrium, Thrombosis																									1		
Epicardium, Inflammation			2																						1		
<b>ENDOCRINE SYSTEM</b>																											
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Degeneration, Cystic			2		2								2						2						4		
Degeneration, Fatty		2								3															8		
Hyperplasia									3				1		1	4		1	1				3		14		
Necrosis																									1		
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Angiectasis																2									1		
Hyperplasia			3			2			2			3						4		2		4			18		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Hyperplasia																					2		2		3		
Parathyroid Gland	+	+	+	M	+	+	+	+	M	M	+	+	+	+	+	+	M	+	+	+	+	+	+	43			
Hyperplasia																									3		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			

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 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	* TOTALS
	7	6	7	7	6	6	1	6	7	7	4	7	7	7	7	7	7	7	5	7	7	4	4	4	4	4	4		
	2	9	2	2	8	8	8	6	2	2	2	2	2	2	1	2	2	2	3	2	2	2	2	8	8	4	4		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Pars Distalis, Hyperplasia					2				4								2	1			1									17	2.0	
Thyroid Gland					+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		50		
Thrombosis																											2			1	2.0	
C-cell, Hyperplasia														1							3					3	2			6	2.2	
Follicular Cell, Hypertrophy						2							3	3		3					2	2			1	1	1		1		21	1.8

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis																																50	
Atrophy																											3					1	3.0
Preputial Gland																																50	
Cyst																											3					7	2.6
Fibrosis																																1	1.0
Inflammation																										3						2	3.0
Prostate																																50	
Atrophy																																1	2.0
Fibrosis																																1	2.0
Hyperplasia																												3				3	2.0
Inflammation, Acute																																1	1.0
Necrosis																																1	3.0
Seminal Vesicle																																49	
Testes																																49	

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically M .. Missing tissue  
X .. Lesion present A .. Autolysis precludes evaluation  
I .. Insufficient tissue BLANK .. Not examined microscopically  
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1) Minimal 3) Moderate  
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Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg	DAY ON TEST																								* TOTALS
	07	06	07	07	06	06	01	06	07	07	04	07	07	07	07	07	07	07	05	07	07	04	04	04	
ANIMAL ID	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
	27	93	29	27	85	84	88	69	28	28	21	78	88	88	21	22	29	27	59	28	26	29	54		
	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		
	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		
	26	72	88	29	30	12	33	33	34	56	73	89	00	41	42	34	45	66	78	89	50	45			

Atrophy	1	1	2	3	2			3	1	3	2			2	4	4	2	1	1		1	2	4	30	2.1	
Artery, Inflammation, Chronic Active	3	2	3	3	2			3	1	2	2			2				1	1		1	3	4	1	28	2.3
Interstitial Cell, Hyperplasia																		1							1	1.0

**HEMATOPOIETIC SYSTEM**

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia																									1	3.0
Lymph Node																									4	
Mediastinal, Hemorrhage																									1	3.0
Renal, Ectasia																									2	3.5
Renal, Hemorrhage																							3		1	3.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia, Plasma Cell				2																					1	2.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia, Lymphoid																							3		1	3.0
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hematopoietic Cell Proliferation	3		2		2	2		3	3		3	2	2	2	2	2		2	2	1		2		28	2.1	
Inflammation																									1	2.0
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+	46	
Atrophy		3	2	1	2	1		1	1	1	2	3	2	1	2	2	1	2	2	3		2	1	3	41	2.2
Epithelial Cell, Hyperplasia						2																			1	2.0

**INTEGUMENTARY SYSTEM**

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Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg	DAY ON TEST																								* TOTALS		
	0727	0693	0729	0727	0685	0664	0168	0678	0778	0742	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777	0777		0777	
ANIMAL ID	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000		
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cyst Epithelial Inclusion																									5		
Inflammation																									3 2.3		
Epidermis, Ulcer																									1 3.0		
<b>MUSCULOSKELETAL SYSTEM</b>																											
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Fibrous Osteodystrophy																									12 3.0		
<b>NERVOUS SYSTEM</b>																											
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
<b>RESPIRATORY SYSTEM</b>																											
Lung	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
Hemorrhage, Multifocal																									3 1.3		
Inflammation, Chronic																									17 1.6		
Necrosis																									1 3.0		
Alveolar Epithelium, Hyperplasia																									1 4.0		
Alveolus, Infiltration Cellular, Histiocyte																									19 1.2		
Alveolus, Mineralization																									1 3.0		
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Foreign Body																									4		
Fungus																									1		
Inflammation																									1 2.0		

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First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg	DAY ON TEST																						* TOTALS					
	ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	
Inflammation, Chronic Active Respiratory Epithelium, Hyperplasia			1					1				2											1			11	1.5	
							2					2														2	2.0	
Trachea Inflammation			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
																									1	2.0		
<b>SPECIAL SENSES SYSTEM</b>																												
Eye			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Anterior Chamber, Inflammation, Acute																									2	1.0		
Cornea, Inflammation, Acute			1		2	3			1	2		2			1	2	2				2			3	20	2.1		
Harderian Gland Pigmentation, Porphyrin			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
																									1			
Lacrimal Gland Degeneration																									1	2.0		
<b>URINARY SYSTEM</b>																												
Kidney			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Nephropathy			3	4	4	4	4	3	3	3	3	4	2	3	3	3	3	2	3	4	3	2	3	4	4	4	50	3.2
Urinary Bladder			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			

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Lab: BAT

<b>HARLAN SPRAGUE DAWLEY RATS MALE</b>	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<b>males (cont...)</b>
		6	7	6	3	4	7	6	6	5	3	6	6	7	7	7	6	6	4	7	5	7	6	1	5	6	
	<b>75 mg/kg</b>	9	2	3	8	4	2	8	8	6	5	9	1	2	2	2	7	4	5	2	7	0	5	9	5	0	
	2	9	7	2	1	7	9	0	9	7	5	7	8	7	8	1	8	4	8	1	3	0	1	9	2		
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Inflammation																										
Epithelium, Hyperplasia																										
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia, Lymphoid																										
Necrosis																										
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Intestine Small, Ileum	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	
Intestine Small, Jejunum	A	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	A	+	+	+	A
Lymphatic, Ectasia		1			1																					
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cholangiofibrosis																										
Clear Cell Focus		X			X	X							X						X							
Eosinophilic Focus	X					X								X						X	X			X		
Mixed Cell Focus																										
Necrosis													1						2							
Artery, Inflammation, Chronic Active																										
Bile Duct, Hyperplasia		1															1									

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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Experiment Number: 20006 - 03

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Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 75 mg/kg	DAY ON TEST																				males (cont...)				
	0692	0729	0637	0382	0441	0727	0669	0660	0559	0337	0665	0778	0772	0778	0671	0668	0445	0778	0573	0660		0159	0550	0619	0559
ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075

Blood Vessel Inflammation, Chronic Active Mineralization	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	2		3			2	2	2	2		3	1	1	1	1	2	2	2	2	2	3	2		3	2
Heart Cardiomyopathy Atrium, Thrombosis Epicardium, Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
		1	2	3		3	3	3	3	1	3	2	3	3	3	3	3	3	2	2	3	3	2	3	3

ENDOCRINE SYSTEM

Adrenal Cortex Degeneration, Cystic Degeneration, Fatty Hyperplasia Thrombosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
															1									3
		2		1			2	2			1				2		2	1						
	1				2					2			3											3
								2																
Adrenal Medulla Degeneration, Fatty Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
		4				1	2	3		3		2	3		3	3			2	3		1		
Islets, Pancreatic Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
																							2	
Parathyroid Gland Hyperplasia	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	M	M
		1							3		2													2
Pituitary Gland Pars Distalis, Hyperplasia	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
	3		2	2		2		4					4							2	4	3		2

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

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 75 mg/kg	DAY ON TEST																									males (cont...)
	0692	0729	0637	0382	0441	0777	0666	0665	0533	0666	0777	0777	0777	0666	0666	0444	0777	0555	0777	0666	0111	0555	0666	0555	0666	
ANIMAL ID	00051	00052	00053	00054	00055	00056	00057	00058	00059	00060	00061	00062	00063	00064	00065	00066	00067	00068	00069	00070	00071	00072	00073	00074	00075	
Thyroid Gland	+	+	+	A	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
C-cell, Hyperplasia																										
Follicular Cell, Hyperplasia																										
Follicular Cell, Hypertrophy	3		2			2	3			2	2	4	3	2	2		2	3	1	1	2		1	2	1	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy																									
Fibrosis			2				1													2					
Hyperplasia						2																			
Inflammation, Acute											1	3													
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy	1		1			2	2	2	2		3	1	1	1	3		1	1	1	2	1	2	3	3	2
Artery, Inflammation, Chronic Active	1		2			3	3	2	3		3		1	1		1	1	1	3		3	3		3	1

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
-------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

	DAY ON TEST																										
	0 6 9 2	0 7 2 9	0 6 3 7	0 3 8 2	0 4 4 1	0 7 2 7	0 6 8 9	0 6 8 0	0 5 6 9	0 3 5 7	0 6 1 5	0 6 2 7	0 7 2 8	0 7 2 7	0 6 7 8	0 6 2 1	0 4 5 8	0 7 2 1	0 5 7 3	0 6 0 0	0 1 5 1	0 5 9 9	0 6 5 9	0 0 0 0	0 0 0 0	males (cont...)	
HARLAN SPRAGUE DAWLEY RATS MALE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
75 mg/kg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	
Hyperplasia	2																										
Lymph Node				+												+										+	
Bronchial, Hemorrhage																	3										
Deep Cervical, Hemorrhage																											
Deep Cervical, Hyperplasia, Plasma Cell																						3					
Deep Cervical, Inflammation																						4					
Mediastinal, Ectasia																											
Mediastinal, Hemorrhage																									3		
Mediastinal, Hyperplasia, Lymphoid																											
Mediastinal, Infiltration Cellular, Histiocyte																										3	
Pancreatic, Hemorrhage																											
Renal, Hemorrhage														3			3										
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia	3																										
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Ectasia																											
Hemorrhage																											
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation	2	2			3	2			3		3		2	2	1	2		1		2		3	2	2			
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Atrophy		1	1	2	4	2	4	1	3	2	3	3			3		4	4		1	1	3		2		M	

### INTEGUMENTARY SYSTEM

Mammary Gland

+ +

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically M .. Missing tissue  
 X .. Lesion present A .. Autolysis precludes evaluation  
 I .. Insufficient tissue BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>75 mg/kg | DAY ON TEST | 0692  | 0729  | 0637  | 0382  | 0441  | 0727  | 0669  | 0650  | 0533  | 0667  | 0778  | 0778  | 0778  | 0671  | 0668  | 0445  | 0728  | 0573  | 0760  | 0615  | 0595  | 0050  | 0056  | males<br>(cont...) |       |       |
|  | ANIMAL ID   | 00051 | 00052 | 00053 | 00054 | 00055 | 00056 | 00057 | 00058 | 00059 | 00060 | 00061 | 00062 | 00063 | 00064 | 00065 | 00066 | 00067 | 00068 | 00069 | 00070 | 00071 | 00072 | 00073 |                    | 00074 | 00075 |
|  |             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                    | 0     | 0     |

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Skin                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst Epithelial Inclusion |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Necrosis                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

MUSCULOSKELETAL SYSTEM

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Fibrous Osteodystrophy | 3 | 3 |   |   |   |   |   | 3 | 3 |   | 3 | 3 |   |   |   |   | 3 |   |   | 3 | 3 |   | 3 | 3 |   |

NERVOUS SYSTEM

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Gliosis      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Spinal Cord  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Degeneration |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

RESPIRATORY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hemorrhage, Multifocal                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Chronic                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolus, Infiltration Cellular, Histiocyte |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Alveolus, Mineralization                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Chronic Active                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically  
1-4 .. Lesion qualified as:  
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Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>75 mg/kg | DAY ON TEST | 0692  | 0729  | 0637  | 0344  | 0077  | 0666  | 0555  | 0333  | 0666  | 0777  | 0777  | 0777  | 0666  | 0444  | 0777  | 0555  | 0777  | 0666  | 0111  | 0555  | 0077  | 0555  | 0666  | males<br>(cont...) |       |       |
|  | ANIMAL ID   | 00051 | 00052 | 00053 | 00054 | 00055 | 00056 | 00057 | 00058 | 00059 | 00060 | 00061 | 00062 | 00063 | 00064 | 00065 | 00066 | 00067 | 00068 | 00069 | 00070 | 00071 | 00072 | 00073 |                    | 00074 | 00075 |
|  |             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                    | 0     | 0     |

Thrombosis  
Respiratory Epithelium, Hyperplasia

1

1

1

Trachea  
Inflammation

+ +

2

SPECIAL SENSES SYSTEM

Eye  
Anterior Chamber, Inflammation, Acute  
Cornea, Inflammation, Acute

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

Harderian Gland

+ +

Lacrimal Gland  
Degeneration

URINARY SYSTEM

Kidney  
Metaplasia, Osseous  
Nephropathy

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

Urinary Bladder

+ +

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Lab: BAT

|   |  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>75 mg/kg</b> |  | DAY ON TEST | 0637  | 0617  | 0623  | 0651  | 0677  | 0677  | 0677  | 0644  | 0666  | 0644  | 0655  | 0666  | 0655  | 0666  | 0655  | 0677  | 0644  | 0666  | 0666  | 0655  | 0666  | 0677  | 0666  | 0677  | 0677  | 0677  |       |
|   |  | ANIMAL ID   | 00076 | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100 | 00101 | 00102 |
|   |  | * TOTALS    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

ALIMENTARY SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Esophagus                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Epithelium, Hyperplasia              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Intestine Large, Cecum               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Hyperplasia, Lymphoid                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |
| Necrosis                             |   |   |   |   |   |   |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4  |
| Intestine Large, Colon               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Large, Rectum              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Intestine Small, Duodenum            | + | + | A | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| Intestine Small, Ileum               | + | + | A | A | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| Intestine Small, Jejunum             | + | + | A | + | + | + | + | + | A | A | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 39 |
| Lymphatic, Ectasia                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Liver                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Cholangiofibrosis                    |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |
| Clear Cell Focus                     |   |   |   | X |   | X | X |   | X |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   | X | X |   |   |   | 13 |
| Eosinophilic Focus                   |   |   |   |   |   | X | X |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | X | X | X |   |   |   | 12 |
| Mixed Cell Focus                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   | 2  |
| Necrosis                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  |
| Artery, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Bile Duct, Hyperplasia               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

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Indole-3-carbinol

CAS Number: 700-06-1

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First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>75 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |        |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|--------|-------|
|  | 0637        | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  |          | 0667  |       |       |        |       |
| ANIMAL ID                                      | 00076       | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096    | 00097 | 00098 | 00099 | 00100  |       |
| Mesentery                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 2     |
| Artery, Mineralization                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 1 2.0 |
| Oral Mucosa                                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50     |       |
| Foreign Body                                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1      |       |
| Hyperplasia, Squamous                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1 2.0  |       |
| Pancreas                                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50    |        |       |
| Thrombosis                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 3      |       |
| Acinus, Atrophy                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1 3.0  |       |
| Acinus, Hyperplasia                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 10 1.3 |       |
| Artery, Inflammation, Chronic Active           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 32 1.8 |       |
| Salivary Glands                                | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50    |        |       |
| Metaplasia                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1 2.0  |       |
| Stomach, Forestomach                           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50    |        |       |
| Hyperplasia                                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 19 1.7 |       |
| Ulcer  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1 3.0  |       |
| Stomach, Glandular                             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50    |        |       |
| Epithelium, Hyperplasia                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 5 2.0  |       |
| Epithelium, Inflammation                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1 3.0  |       |
| Epithelium, Inflammation, Chronic Active       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 4 2.0  |       |
| Epithelium, Mineralization                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 12 2.5 |       |
| Epithelium, Ulcer                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1 1.0  |       |
| Epithelium, Muscularis, Hyperplasia, Focal     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 1 2.0  |       |

CARDIOVASCULAR SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>75 mg/kg   | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |      |    |     |     |     |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|------|----|-----|-----|-----|
|  | 0637        | 0661  | 0662  | 0651  | 0672  | 0677  | 0677  | 0644  | 0666  | 0644  | 0655  | 0666  | 0655  | 0633  | 0655  | 0677  | 0644  | 0666  | 0666  | 0655  |          | 0667  | 0667  | 0677  | 0677 |    |     |     |     |
| ANIMAL ID  | 00076       | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096    | 00097 | 00098 | 00099 |      |    |     |     |     |
| Blood Vessel<br>Inflammation, Chronic Active<br>Mineralization                             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50   | 38 | 2.1 |     |     |
|  | 2           | 2     | 2     | 2     | 2     | 3     | 3     | 2     | 3     |       | 2     |       | 1     | 2     |       |       |       |       | 2     | 2     |          | 3     | 2     |       | 2    | 2  |     | 2   | 3.0 |
| Heart<br>Cardiomyopathy<br>Atrium, Thrombosis<br>Epicardium, Inflammation                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50   | 48 | 2.6 |     |     |
|  | 3           | 3     | 3     | 3     | 2     | 3     | 3     | 3     | 3     | 2     | 3     | 3     | 3     | 3     | 1     | 1     | 2     | 3     | 3     | 3     | 3        | 2     | 2     | 3     | 1    |    | 3   | 3.3 |     |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3     |       |       |       |       |          |       |       |       |      | 1  | 3.0 |     |     |
| <b>ENDOCRINE SYSTEM</b>  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    |     |     |     |
| Adrenal Cortex<br>Degeneration, Cystic<br>Degeneration, Fatty<br>Hyperplasia<br>Thrombosis | M           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 49   |    | 3   | 2.3 |     |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    | 13  | 1.8 |     |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    | 19  | 2.1 |     |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    | 1   | 2.0 |     |
| Adrenal Medulla<br>Degeneration, Fatty<br>Hyperplasia                                      | M           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 49    |      | 1  | 1.0 |     |     |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      | 22 | 2.2 |     |     |
| Islets, Pancreatic<br>Hyperplasia  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50    |      | 6  | 2.0 |     |     |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    |     |     |     |
| Parathyroid Gland<br>Hyperplasia   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 46    |      | 10 | 2.2 |     |     |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    |     |     |     |
| Pituitary Gland<br>Pars Distalis, Hyperplasia  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 49    |      | 18 | 2.6 |     |     |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      |    |     |     |     |

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BLANK .. Not examined microscopically  
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Experiment Number: 20006 - 03

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

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First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>75 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |    |     |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|----|-----|
|  | ANIMAL ID   |       | 0637  | 0617  | 0623  | 0651  | 0672  | 0677  | 0677  | 0644  | 0666  | 0644  | 0655  | 0666  | 0655  | 0633  | 0655  | 0677  | 0644  | 0666  | 0667  | 0655  | 0667  | 0667  | 0677  | 0677  |          | 0677  |    |     |
|  | 00076       | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00088 | 00088 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099    | 00100 |    |     |
| Thyroid Gland                                  |             |       | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | 46 |     |
| C-cell, Hyperplasia                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 4  | 2.0 |
| Follicular Cell, Hyperplasia                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1  | 4.0 |
| Follicular Cell, Hypertrophy                   |             |       | 3     |       | 2     | 1     |       | 1     | 1     |       | 2     |       |       |       |       |       | 2     | 2     | 1     | 1     | 1     |       | 2     |       | 2     | 1     | 1        | 2     | 34 | 1.9 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Epididymis                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50  |     |
| Preputial Gland                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50  |     |
| Prostate                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50  |     |
| Atrophy                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1   | 2.0 |
| Fibrosis                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3   | 1.7 |
| Hyperplasia                          |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   | 2 |   | 2 |   |   |   |   |   |   |    | 4   | 2.3 |
| Inflammation, Acute                  | 1 |   | 1 |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |    | 6   | 1.5 |
| Seminal Vesicle                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50  |     |
| Testes                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50  |     |
| Atrophy                              | 2 | 2 | 1 | 1 | 2 | 2 | 2 |   | 3 |   | 3 |   |   | 2 | 4 |   |   |   | 3 | 2 | 4 | 1 | 1 |   |   | 1 | 3 | 37 | 2.0 |     |
| Artery, Inflammation, Chronic Active | 2 | 3 |   | 2 | 2 | 3 | 3 |   | 4 |   | 3 |   | 2 | 2 |   | 1 |   |   | 2 | 2 |   | 1 | 1 |   |   | 3 | 2 | 34 | 2.1 |     |

HEMATOPOIETIC SYSTEM

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

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

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| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>75 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |      |   |     |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|------|---|-----|
|  | 0637        | 0661  | 0662  | 0651  | 0672  | 0677  | 0677  | 0644  | 0666  | 0644  | 0655  | 0666  | 0655  | 0666  | 0655  | 0677  | 0644  | 0666  | 0666  | 0655  | 0666  | 0677  | 0666  | 0677  |          | 0677 |   |     |
| ANIMAL ID                                      | 00076       | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096 | 00097 | 00098 | 00099 | 00100    |      |   |     |
| Hyperplasia                                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2    | 2 | 2.0 |
| Lymph Node                                     | +           |       |       |       | +     |       |       |       |       | +     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 8    |   |     |
| Bronchial, Hemorrhage                          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      | 1 | 3.0 |
| Deep Cervical, Hemorrhage                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      | 1 | 3.0 |
| Deep Cervical, Hyperplasia, Plasma Cell        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      | 3 | 3.0 |
| Deep Cervical, Inflammation                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      | 1 | 4.0 |
| Mediastinal, Ectasia                           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 3    | 1 | 3.0 |
| Mediastinal, Hemorrhage                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2    | 2 | 2.5 |
| Mediastinal, Hyperplasia, Lymphoid             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 4    | 1 | 4.0 |
| Mediastinal, Infiltration Cellular, Histiocyte |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      | 1 | 3.0 |
| Pancreatic, Hemorrhage                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 2    | 1 | 2.0 |
| Renal, Hemorrhage                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      | 2 | 3.0 |
| Lymph Node, Mandibular                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50   |   |     |
| Ectasia  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |      | 1 | 3.0 |
| Lymph Node, Mesenteric                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50   |   |     |
| Ectasia  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 3    | 1 | 3.0 |
| Hemorrhage                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1    | 1 | 1.0 |
| Spleen   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50   |   |     |
| Hematopoietic Cell Proliferation               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 33   | 2 | 2.2 |
| Thymus   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 49   |   |     |
| Atrophy  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 41   | 2 | 2.6 |

**INTEGUMENTARY SYSTEM**

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |  |  |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |  |  |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--|

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>75 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
|  | 0637        | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  | 0667  |          | 0667  |       |       |       |
| ANIMAL ID                                      | 00076       | 00077 | 00078 | 00079 | 00080 | 00081 | 00082 | 00083 | 00084 | 00085 | 00086 | 00087 | 00088 | 00089 | 00090 | 00091 | 00092 | 00093 | 00094 | 00095 | 00096    | 00097 | 00098 | 00099 | 00100 |

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Skin                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Cyst Epithelial Inclusion |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   | 3     |
| Inflammation              |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 3.0 |
| Necrosis                  | 4 |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 3.5 |

**MUSCULOSKELETAL SYSTEM**

|                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Bone                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Fibrous Osteodystrophy |   |   |   | 3 | 3 |   |   |   | 3 |   | 3 |   | 3 |   |   |   | 3 | 3 |   | 3 |   |   |   |   |    | 19 3.0 |

**NERVOUS SYSTEM**

|              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Brain        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |       |
| Gliosis      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 1.0 |
| Spinal Cord  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2     |
| Degeneration |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 2.5 |

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Foreign Body                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1      |
| Hemorrhage, Multifocal                      | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3 1.0  |
| Inflammation, Chronic                       | 3 | 2 |   |   |   |   |   |   |   |   | 1 |   |   |   |   | 2 | 2 |   | 3 |   |   |   | 2 | 1 |    | 21 1.9 |
| Alveolus, Infiltration Cellular, Histiocyte |   | 2 | 1 | 1 | 1 | 1 |   | 1 |   |   |   |   | 1 |   |   |   |   |   | 1 | 1 | 1 | 1 |   |   |    | 22 1.1 |
| Alveolus, Mineralization                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2 2.5  |
| Nose  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Foreign Body                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X | X | X | X |   |   |   |   |   |    | 12     |
| Inflammation, Chronic Active                |   |   |   |   |   |   | 1 |   |   |   |   | 2 |   |   | 1 | 3 |   | 2 | 2 | 1 |   |   |   |   |    | 15 1.3 |

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



Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>150 mg/kg | DAY ON TEST | 0693 | 0728 | 0587 | 0779 | 0520 | 0657 | 0594 | 0553 | 0664 | 0593 | 0724 | 0773 | 0777 | 0486 | 0729 | 0779 | 0779 | 0676 | 0722 | 0423 | 0727 | 0367 | 0570 | 0706 | males<br>(cont...) |
|   | ANIMAL ID   | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 |                    |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum<br>Lymphatic, Ectasia | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                          | + | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Lymphatic, Ectasia  | + | + | A | A | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus                                |   |   |   |   |   |   |   | X |   |   |   |   |   | X |   | X |   |   |   |   |   |   |   |   |   |
| Cholangiofibrosis                               |   |   |   |   |   |   |   |   |   |   |   | 2 |   | 4 |   |   |   |   |   |   |   |   |   |   |   |
| Clear Cell Focus                                |   | X |   |   | X |   |   |   | X | X | X | X |   | X | X |   | X |   | X |   | X |   |   |   |   |
| Degeneration, Cystic                            |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |
| Eosinophilic Focus                              |   |   |   |   | X |   | X |   |   |   |   | X |   |   |   |   | X |   | X |   |   |   |   |   |   |
| Hepatodiaphragmatic Nodule                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mixed Cell Focus                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Necrosis  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bile Duct, Cyst                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 2 |
| Bile Duct, Cyst, Multiple                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bile Duct, Fibrosis                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>150 mg/kg   | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |      |      |      |      |      |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|------|------|
|   | 0693        | 0728 | 0757 | 0777 | 0777 | 0756 | 0756 | 0755 | 0756 | 0755 | 0766 | 0755 | 0755 | 0766 | 0777 | 0777 | 0777 | 0744 | 0777 | 0777 |           |                    | 0777 | 0766 | 0777 | 0744 | 0777 | 0733 | 0755 |
|   | 0010        | 0002 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001      | 0001               | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 | 0001 |
| Bile Duct, Hyperplasia  | 2           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | 1                  |      |      |      |      |      |      |      |
| Mesentery   | +           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |      |      |      |      |      |      |
| Oral Mucosa<br>Hyperplasia, Squamous  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  | +    | +    | +    | +    | +    | +    | +    |
| Pancreas<br>Acinus, Hyperplasia<br>Artery, Inflammation, Chronic Active   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |      |      |      |      |      |      |
| Salivary Glands   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  | +    | +    | +    | +    | +    | +    | +    |
| Stomach, Forestomach<br>Erosion<br>Hyperplasia<br>Inflammation<br>Ulcer   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  | +    | +    | +    | +    | +    | +    | +    |
| Stomach, Glandular<br>Epithelium, Amyloid Deposition<br>Epithelium, Hyperplasia<br>Epithelium, Inflammation, Chronic Active<br>Epithelium, Mineralization | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  | +    | +    | +    | +    | +    | +    | +    |
| Tooth<br>Malformation   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |      |      |      |      |      |      |

CARDIOVASCULAR SYSTEM

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

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

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>150 mg/kg | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|
|   | 0693        | 0728 | 0587 | 0779 | 0779 | 0556 | 0657 | 0559 | 0556 | 0664 | 0553 | 0664 | 0773 | 0777 | 0777 | 0448 | 0779 | 0777 | 0779 | 0779 | 0667 | 0776 | 0443 | 0777 | 0335 |           |                    | 0557 |
|   | 0010        | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011      | 0011               | 0011 |

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation, Chronic Active |   |   |   | 2 | 2 |   | 3 | 2 | 1 | 3 | 4 | 3 | 2 |   | 2 |   | 2 | 3 | 3 | 2 |   | 2 |   |   |   |   |   | 2 |
| Mineralization               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thrombosis                   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Heart                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cardiomyopathy               | 3 | 3 | 3 | 3 | 2 | 1 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 3 | 2 | 3 | 2 |   | 2 | 1 | 2 | 2 | 3 |   |   |
| Atrium, Thrombosis           |   |   |   |   |   |   |   |   |   | 3 | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pericardium, Inflammation    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |

ENDOCRINE SYSTEM

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Degeneration, Cystic             |   | 2 |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |
| Degeneration, Fatty              |   |   |   |   |   |   |   | 1 |   |   |   | 2 |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |
| Hematopoietic Cell Proliferation | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hemorrhage                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |
| Hyperplasia                      | 3 | 2 | 1 |   |   | 2 | 4 |   |   |   |   |   | 2 |   |   |   |   |   | 2 |   |   |   |   |   | 1 |   |   |   |
| Adrenal Medulla                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                      |   |   | 2 |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 2 | 3 |   |   |   |   |   |   |   |
| Islets, Pancreatic               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Parathyroid Gland                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                      | 1 |   | 3 |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   | 3 |   | 2 |   |   |   |   |   | 2 | 2 |
| Pituitary Gland                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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+ .. Tissue examined microscopically  
X .. Lesion present  
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Experiment Number: 20006 - 03

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>150 mg/kg | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | males<br>(cont...) |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|
|   | 0693        | 0728 | 0587 | 0779 | 0779 | 0556 | 0659 | 0590 | 0556 | 0663 | 0564 | 0773 | 0777 | 0777 | 0486 | 0779 | 0777 | 0779 | 0779 | 0676 | 0772 | 0423 | 0772 | 0367 | 0570 |                    | 0770 |
| ANIMAL ID                                       | 0010        | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011               | 0011 |
| Pars Distalis, Hyperplasia                      |             |      |      |      |      | 3    |      | 4    |      |      |      |      |      | 1    |      | 4    |      |      | 1    | 2    | 2    | 1    |      |      |      |                    |      |
| Thyroid Gland                                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                  | +    |
| C-cell, Hyperplasia                             |             |      | 4    |      |      |      |      |      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      | 2    |      |      |                    |      |
| Follicular Cell, Hypertrophy                    |             |      | 1    |      | 2    | 2    |      |      |      | 2    |      |      | 2    | 1    | 3    | 3    | 2    |      | 3    |      | 1    | 2    | 2    |      | 1    | 4                  |      |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland Cyst   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |
| Prostate Fibrosis  |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |
| Prostate Hyperplasia   |   |   |   |   | 3 |   |   | 3 |   |   |   |   |   |   |   | 3 |   |   |   |   |   | 2 |   |   |   |   |
| Seminal Vesicle Hypoplasia   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Testes Atrophy   |   |   | 3 | 1 | 3 | 1 |   | 3 | 1 |   |   | 2 | 3 |   |   | 1 |   |   | 3 | 2 | 2 |   | 1 |   |   | 2 |
| Testes Pigmentation, Hemosiderin Artery, Inflammation, Chronic Active Interstitial Cell, Hyperplasia |   |   |   | 1 | 4 | 3 |   | 4 | 1 |   | 2 | 2 | 3 |   | 2 |   | 2 | 3 |   | 2 | 2 |   | 2 |   |   | 2 |

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

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>150 mg/kg | DAY ON TEST | 0693 | 0728 | 0587 | 0770 | 0520 | 0655 | 0590 | 0562 | 0674 | 0553 | 0664 | 0773 | 0777 | 0488 | 0722 | 0770 | 0777 | 0661 | 0722 | 0477 | 0336 | 0570 | 0770 | males<br>(cont...) |
|   | ANIMAL ID   | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 |                    |

HEMATOPOIETIC SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone Marrow<br>Hyperplasia                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  | 3 |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |
| Lymph Node<br>Bronchial, Hemorrhage          |   |   |   |   |   |   |   |   |   |   | + |   |   | + |   |   |   |   |   |   | + |   |   | + |
| Iliac, Infiltration Cellular, Histiocyte     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Lumbar, Hemorrhage                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |
| Mediastinal, Ectasia                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mediastinal, Hemorrhage                      |   |   |   |   |   |   |   |   |   |   | 3 |   |   | 3 |   |   |   |   |   |   |   |   |   |   |
| Lymph Node, Mandibular<br>Ectasia            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |
| Lymph Node, Mesenteric<br>Lymphatic, Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |
| Spleen<br>Hematopoietic Cell Proliferation   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Necrosis                                     | 3 | 2 |   | 1 | 1 | 2 | 2 |   | 2 |   | 3 | 1 | 1 | 1 | 2 | 2 |   | 2 |   |   | 3 | 3 |   | 1 |
| Thymus<br>Atrophy                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hemorrhage                                   | 3 | 1 | 4 | 1 |   | 2 | 4 | 3 |   | 2 | 4 | 2 | 2 | 3 | 3 | 3 | 4 |   | 4 | 2 | 1 | 1 | 3 | 2 |
|  |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |

INTEGUMENTARY SYSTEM

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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+ .. Tissue examined microscopically  
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1-4 .. Lesion qualified as:  
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|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>150 mg/kg | DAY ON TEST | 0693 | 0728 | 0587 | 0779 | 0777 | 0556 | 0659 | 0590 | 0652 | 0563 | 0674 | 0773 | 0777 | 0486 | 0772 | 0770 | 0779 | 0676 | 0722 | 0423 | 0777 | 0367 | 0570 | 0706 | males<br>(cont...) |
|   | ANIMAL ID   | 0010 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 |                    |
|   |             | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    |                    |

|                           |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Fibrosis                  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Skin                      | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Cyst Epithelial Inclusion | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

MUSCULOSKELETAL SYSTEM

|                        |         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Bone                   | +       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Fibrous Osteodystrophy | 3 3 3 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maxilla, Fracture      | 2       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

NERVOUS SYSTEM

|              |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Brain        | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Spinal Cord  | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Degeneration |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

RESPIRATORY SYSTEM

|   |                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Lung  | +                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Edema                                       |                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Foreign Body                                |                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hemorrhage                                  | 1                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hemorrhage, Multifocal                      | 2 2 1 1 2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Inflammation, Granulomatous                 |                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Inflammation, Chronic                       | 2 2 3 1 2 3 1 1           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Alveolar Epithelium, Hyperplasia            | 1                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Alveolus, Infiltration Cellular, Histiocyte | 1 1 1 1 1 1 1 3 2 2 1 1 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Alveolus, Mineralization                    |                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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+ .. Tissue examined microscopically  
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I .. Insufficient tissue  
M .. Missing tissue  
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1-4 .. Lesion qualified as:  
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Experiment Number: 20006 - 03

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| DAY ON TEST                                     | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|   | 6 | 7 | 5 | 7 | 7 | 5 | 6 | 5 | 5 | 6 | 7 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 6 | 7 | 4 | 7 | 3 | 5 | 7 | 6 | 7 | 7 |
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>150 mg/kg | 9 | 2 | 8 | 0 | 2 | 0 | 5 | 9 | 0 | 2 | 1 | 2 | 2 | 8 | 2 | 2 | 0 | 2 | 1 | 2 | 2 | 2 | 6 | 7 | 0 | 6 | 0 | 6 |
|   | 3 | 8 | 7 | 9 | 7 | 0 | 7 | 4 | 3 | 4 | 3 | 7 | 7 | 6 | 9 | 7 | 9 | 7 | 6 | 9 | 3 | 7 | 7 | 0 | 6 | 0 | 6 | 6 |
| ANIMAL ID                                       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|   | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
|   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

males (cont...)

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Foreign Body                                 |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |
| Inflammation, Chronic Active                 |   |   | 1 | 2 |   |   |   |   |   | 2 | 1 |   |   |   |   |   | 1 |   |   |   |   |   | 3 | 3 | 1 |   |   |
| Respiratory Epithelium, Hyperplasia          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Respiratory Epithelium, Metaplasia, Squamous |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Trachea                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

SPECIAL SENSES SYSTEM

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Ear                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| External Ear, Hyperplasia, Squamous   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Eye                                   | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Anterior Chamber, Inflammation, Acute |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Cornea, Inflammation, Acute           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                       | 2 |   | 3 |   |   |   |   |   |   |   | 2 | 3 | 2 |   |   | 2 |   |   |   |   |   |   |   |   |   | 3 | 3 |  |
| Harderian Gland                       | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Lacrimal Gland                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Degeneration                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

URINARY SYSTEM

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nephropathy              | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 3 | 1 | 3 |   | 3 | 4 |   |   |
| Renal Tubule, Dilatation |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Urinary Bladder          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>150 mg/kg | DAY ON TEST |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | * TOTALS |    |
|---|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----|
|   | 07<br>29    | 07<br>29 | 04<br>82 | 05<br>93 | 07<br>28 | 05<br>58 | 05<br>83 | 06<br>23 | 04<br>99 | 07<br>29 | 06<br>99 | 06<br>04 | 04<br>86 | 05<br>46 | 06<br>97 | 05<br>49 | 07<br>27 | 07<br>71 | 07<br>31 | 05<br>66 | 06<br>12 | 06<br>11 | 07<br>27 | 07<br>77 |          |    |
| ANIMAL ID                                       | 00126       | 00127    | 00128    | 00129    | 00130    | 00131    | 00132    | 00133    | 00134    | 00135    | 00136    | 00137    | 00138    | 00139    | 00140    | 00141    | 00142    | 00143    | 00144    | 00145    | 00146    | 00147    | 00148    | 00149    | 00150    |    |
|   | 0           | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 0        | 50 |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Esophagus                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50     |
| Intestine Large, Cecum                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50     |
| Intestine Large, Colon                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50     |
| Intestine Large, Rectum                         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50     |
| Intestine Small, Duodenum<br>Lymphatic, Ectasia | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | +  | 47     |
|   |   |   | 1 |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 2 |   |   |    | 15 1.5 |
| Intestine Small, Ileum                          | + | + | + | + | + | A | + | A | + | + | A | A | + | + | + | + | + | + | + | A | + | A | + | + | +  | 42     |
| Intestine Small, Jejunum<br>Lymphatic, Ectasia  | + | + | + | + | + | A | + | A | + | + | A | + | + | + | A | + | + | + | + | A | + | A | + | + | +  | 40     |
|   | 1 | 1 | 2 |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   | 1 | 1 | 2 |   |   | 2 | 1  | 27 1.7 |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50     |
| Basophilic Focus                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3      |
| Cholangiofibrosis                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |    | 3 2.7  |
| Clear Cell Focus                                | X | X |   |   | X |   |   |   |   | X | X |   |   |   |   |   |   |   | X |   |   |   |   | X | 18 |        |
| Degeneration, Cystic                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 3.0  |
| Eosinophilic Focus                              |   |   | X |   | X |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   | X |   |    | 10     |
| Hepatodiaphragmatic Nodule                      |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1      |
| Mixed Cell Focus                                |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1      |
| Necrosis  |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |    | 5 2.0  |
| Bile Duct, Cyst                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0  |
| Bile Duct, Cyst, Multiple                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 2.0  |
| Bile Duct, Fibrosis                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 3.0  |

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

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

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>150 mg/kg      | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |    |    |    |     |        |     |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|-----|--------|-----|
|  | 07          | 07 | 04 | 05 | 07 | 05 | 05 | 06 | 04 | 07 | 06 | 06 | 04 | 05 | 06 | 05 | 07 | 07 | 07 | 05 |          | 06 | 07 | 06 | 07  | 07     |     |
| ANIMAL ID  | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       | 00 | 00 | 00 | 00  |        |     |
| Bile Duct, Hyperplasia                               | 2           | 2  | 8  | 9  | 2  | 5  | 8  | 2  | 9  | 2  | 9  | 6  | 6  | 4  | 9  | 4  | 2  | 1  | 2  | 3  | 6        | 1  | 1  | 2  | 2   | 3      | 1.7 |
| Mesentery  | 9           | 9  | 2  | 3  | 8  | 3  | 9  | 9  | 0  | 4  | 8  | 6  | 6  | 8  | 7  | 9  | 7  | 1  | 7  | 1  | 6        | 7  | 7  | 7  | 1   |        |     |
| Oral Mucosa<br>Hyperplasia, Squamous                 | 0           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0        | 0  | 0  | 0  | 50  | 2 2.5  |     |
| Pancreas<br>Acinus, Hyperplasia                      | 1           | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1        | 1  | 1  | 1  | 50  | 14 1.8 |     |
| Artery, Inflammation, Chronic Active                 | 2           | 3  |    |    | 1  |    | 3  | 1  | 3  | 2  | 2  |    | 1  | 2  | 1  |    | 2  |    | 2  |    | 1        |    | 2  | 27 | 1.9 |        |     |
| Salivary Glands                                      | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | +  | +  | +  | 49  |        |     |
| Stomach, Forestomach<br>Erosion                      | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | +  | +  | +  | 50  | 1 1.0  |     |
| Hyperplasia  |             | 2  |    |    |    |    |    |    |    |    | 2  | 3  |    | 2  |    | 2  | 2  |    | 2  | 3  |          | 3  | 2  | 19 | 2.3 |        |     |
| Inflammation   |             |    |    |    | 2  |    |    |    |    |    |    |    |    | 1  |    |    |    |    |    |    |          |    |    |    | 4   | 1.3    |     |
| Ulcer  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    | 1   | 3.0    |     |
| Stomach, Glandular<br>Epithelium, Amyloid Deposition | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | +  | +  | +  | 50  | 1 3.0  |     |
| Epithelium, Hyperplasia                              |             |    |    | 2  |    |    |    |    | 1  | 2  |    |    | 2  |    | 3  |    |    |    |    |    |          |    |    |    | 7   | 2.0    |     |
| Epithelium, Inflammation, Chronic Active             |             |    |    |    |    |    |    |    | 2  |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    | 2   | 1.5    |     |
| Epithelium, Mineralization                           |             |    |    |    | 3  |    |    |    | 2  |    |    |    |    | 3  |    |    |    |    |    |    |          |    |    |    | 6   | 2.3    |     |
| Tooth<br>Malformation                                |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    | 1   | 1 3.0  |     |

CARDIOVASCULAR SYSTEM

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

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

1-4 .. Lesion qualified as:  
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Experiment Number: 20006 - 03

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

Indole-3-carbinol  
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Date Report Requested: 04/16/2013

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First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>150 mg/kg | DAY ON TEST |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | * TOTALS |          |          |          |          |          |     |     |
|---|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|-----|
|   | 07<br>29    | 07<br>29 | 04<br>82 | 05<br>93 | 07<br>28 | 05<br>58 | 05<br>83 | 06<br>63 | 04<br>92 | 07<br>29 | 06<br>69 | 06<br>64 | 04<br>86 | 05<br>54 | 06<br>69 | 05<br>49 | 07<br>27 | 07<br>71 | 07<br>72 | 05<br>31 |          | 06<br>66 | 07<br>12 | 06<br>11 | 07<br>27 | 07<br>27 |     |     |
| ANIMAL ID                                       | 00116       | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    | 00011    |     |     |
| Blood Vessel                                    |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 50  |     |
| Inflammation, Chronic Active                    | 2           | 2        |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 30  | 2.3 |
| Mineralization                                  |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 1   | 3.0 |
| Thrombosis                                      |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 1   |     |
| Heart   |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 50  |     |
| Cardiomyopathy                                  | 3           | 2        | 1        | 3        | 1        | 3        | 3        | 3        | 3        | 2        | 3        | 3        | 2        | 3        | 3        | 2        | 3        | 2        | 2        | 3        | 3        | 3        | 3        | 3        | 3        | 49       | 2.5 |     |
| Atrium, Thrombosis                              |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 3        | 3.3 |     |
| Pericardium, Inflammation                       |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 1        | 3.0 |     |
| <b>ENDOCRINE SYSTEM</b>                         |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |     |     |
| Adrenal Cortex                                  |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 50  |     |
| Degeneration, Cystic                            |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 5   | 1.8 |
| Degeneration, Fatty                             |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 5   | 1.6 |
| Hematopoietic Cell Proliferation                |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 1   | 2.0 |
| Hemorrhage                                      |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 1   | 3.0 |
| Hyperplasia                                     | 1           |          |          |          | 4        |          |          |          |          |          | 2        |          |          | 1        |          | 2        |          | 2        |          | 2        | 1        |          | 3        | 1        |          | 3        | 19  | 2.1 |
| Adrenal Medulla                                 |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 50  |     |
| Hyperplasia                                     |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 20  | 1.9 |
| Islets, Pancreatic                              |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 50  |     |
| Hyperplasia                                     |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 1   | 2.0 |
| Parathyroid Gland                               |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 50  |     |
| Hyperplasia                                     |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 13  | 2.0 |
| Pituitary Gland                                 |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 50  |     |

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

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|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----------|
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |    |          |
|   | 7           | 7 | 4 | 5 | 7 | 5 | 5 | 6 | 4 | 7 | 6 | 6 | 4 | 5 | 6 | 5 | 7 | 7 | 7 | 5 | 6 | 7 | 6 | 7  |          |
|   | 2           | 2 | 8 | 9 | 2 | 5 | 8 | 2 | 9 | 6 | 6 | 4 | 4 | 9 | 4 | 2 | 1 | 2 | 3 | 6 | 1 | 1 | 2 | 2  |          |
|   | 9           | 9 | 2 | 3 | 8 | 8 | 3 | 3 | 9 | 9 | 0 | 4 | 8 | 6 | 7 | 9 | 7 | 1 | 7 | 1 | 6 | 2 | 7 | 7  |          |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |          |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |          |
|   | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  |          |
|   | 2           | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5  |          |
|   | 6           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9  |          |
| Pars Distalis, Hyperplasia                      | 2           | 2 | 1 |   | 2 |   |   |   |   | 1 | 3 |   |   |   |   |   |   | 3 | 2 | 2 |   | 1 | 1 | 19 |          |
| Thyroid Gland                                   | +           | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | + | + | 48 |          |
| C-cell, Hyperplasia                             |             |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4  |          |
| Follicular Cell, Hypertrophy                    | 2           | 2 |   | 2 | 3 |   | 3 | 1 |   | 2 |   | 1 | 2 |   | 2 | 1 | 3 | 3 | 2 |   | 3 | 3 | 2 | 2  | 33       |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2.8      |
|   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2.1      |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Epididymis                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |
| Preputial Gland                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49  |
| Cyst                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3   |
|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3.3 |
| Prostate                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |
| Fibrosis                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2   |
| Hyperplasia                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 | 2 | 3 | 7   |
|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2.0 |
|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2.7 |
| Seminal Vesicle                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |
| Hypoplasia                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1   |
|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2.0 |
| Testes                               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |
| Atrophy                              | 1 | 1 |   | 1 | 1 | 1 |   | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 |   | 2 | 2 |   | 35  |
| Pigmentation, Hemosiderin            |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   | 1   |
| Artery, Inflammation, Chronic Active | 3 | 2 |   |   | 1 |   | 3 | 2 | 2 | 2 |   |   |   | 2 | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 33  |
| Interstitial Cell, Hyperplasia       | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1   |
|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1.0 |
|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2.3 |
|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1.0 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>150 mg/kg | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * TOTALS |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |          |
|   | 7           | 7 | 4 | 5 | 7 | 5 | 5 | 6 | 4 | 7 | 6 | 6 | 4 | 5 | 6 | 5 | 7 | 7 | 7 | 5 | 6 | 7 | 6 | 7 | 7 |          |
| ANIMAL ID                                       | 2           | 2 | 8 | 9 | 2 | 5 | 8 | 2 | 9 | 2 | 9 | 6 | 6 | 4 | 9 | 4 | 2 | 1 | 2 | 3 | 6 | 1 | 1 | 2 | 2 |          |
|   | 9           | 9 | 2 | 3 | 8 | 8 | 3 | 3 | 9 | 9 | 0 | 4 | 8 | 6 | 7 | 9 | 7 | 1 | 7 | 1 | 6 | 2 | 1 | 7 | 7 |          |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |          |
|   | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |          |
|   | 2           | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |          |
|   | 6           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |          |

**HEMATOPOIETIC SYSTEM**

|  |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |    |     |
|--|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|----|-----|
| Bone Marrow                              | +                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |    |     |
| Hyperplasia                              | 1                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 4  | 2.3 |
| Lymph Node                               |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8  |    |     |
| Bronchial, Hemorrhage                    |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1  | 3.0 |
| Iliac, Infiltration Cellular, Histiocyte | 2                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1  | 2.0 |
| Lumbar, Hemorrhage                       |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 2  | 3.0 |
| Mediastinal, Ectasia                     |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1  | 3.0 |
| Mediastinal, Hemorrhage                  | 3                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 3  | 3.0 |
| Lymph Node, Mandibular                   | +                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 49 |    |     |
| Ectasia                                  | 3                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1  | 3.0 |
| Hemorrhage                               |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1  | 3.0 |
| Lymph Node, Mesenteric                   | +                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |    |     |
| Lymphatic, Ectasia                       |                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1  | 3.0 |
| Spleen                                   | +                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |    |     |
| Hematopoietic Cell Proliferation         | 2 2 1 2                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 28 | 2.0 |
| Necrosis                                 | 2 2 3 3 2                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1  | 3.0 |
| Thymus                                   | +                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 49 |    |     |
| Atrophy                                  | 1 1 1 2 3 1 3 2 2 3 2 3 3 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 42 | 2.4 |
| Hemorrhage                               | M                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 1  | 3.0 |

**INTEGUMENTARY SYSTEM**

|               |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |
|---------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|--|
| Mammary Gland | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |  |  |
|---------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|--|

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

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Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>150 mg/kg | DAY ON TEST |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | * TOTALS |    |     |   |     |
|---|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----|-----|---|-----|
|   | 07<br>29    | 07<br>29 | 04<br>82 | 05<br>93 | 07<br>28 | 05<br>88 | 05<br>83 | 06<br>23 | 04<br>99 | 07<br>29 | 06<br>99 | 06<br>04 | 04<br>86 | 05<br>46 | 06<br>97 | 05<br>49 | 07<br>27 | 07<br>11 | 07<br>27 | 05<br>31 | 06<br>66 | 07<br>12 | 06<br>11 | 07<br>27 |          |    |     |   |     |
| ANIMAL ID                                       | 001126      | 001127   | 001128   | 001129   | 001130   | 001131   | 001132   | 001133   | 001134   | 001135   | 001136   | 001137   | 001138   | 001139   | 001140   | 001141   | 001142   | 001143   | 001144   | 001145   | 001146   | 001147   | 001148   | 001149   | 001150   |    |     |   |     |
| Fibrosis  |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 1  | 2.0 |   |     |
| Skin  | +           | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | 50 |     |   |     |
| Cyst Epithelial Inclusion                       |             |          |          |          |          |          |          |          |          |          | X        |          |          |          |          |          |          |          |          |          |          |          |          |          |          |    | 2   |   |     |
| <b>MUSCULOSKELETAL SYSTEM</b>                   |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |    |     |   |     |
| Bone  | +           | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | 50 |     |   |     |
| Fibrous Osteodystrophy                          |             |          |          |          |          |          | 3        |          | 3        |          | 3        |          |          |          | 4        |          |          |          |          |          | 3        |          | 3        |          |          | 13 | 3.1 |   |     |
| Maxilla, Fracture                               |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 1  | 2.0 |   |     |
| <b>NERVOUS SYSTEM</b>                           |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |    |     |   |     |
| Brain   | +           | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | 50 |     |   |     |
| Spinal Cord                                     |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 1  |     |   |     |
| Degeneration                                    |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |    | 2   | 1 | 2.0 |
| <b>RESPIRATORY SYSTEM</b>                       |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |    |     |   |     |
| Lung  | +           | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | +        | 50       |    |     |   |     |
| Edema   |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |    | 3   | 1 | 3.0 |
| Foreign Body                                    |             |          |          |          | X        |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 1        |    |     |   |     |
| Hemorrhage                                      |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 1  | 1.0 |   |     |
| Hemorrhage, Multifocal                          |             |          |          |          |          |          |          |          |          | 2        | 1        |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 7  | 1.6 |   |     |
| Inflammation, Granulomatous                     |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 2        |          |          |          |          | 1  | 2.0 |   |     |
| Inflammation, Chronic                           | 1           |          |          | 3        |          | 3        |          |          | 3        | 1        |          | 2        | 1        | 3        | 1        | 1        | 1        |          |          | 1        |          | 1        | 3        | 2        | 2        | 24 | 1.8 |   |     |
| Alveolar Epithelium, Hyperplasia                |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 1  | 1.0 |   |     |
| Alveolus, Infiltration Cellular, Histiocyte     |             |          | 1        |          |          |          |          |          | 3        | 1        | 1        |          |          |          |          |          |          |          |          | 2        |          | 2        |          |          |          | 19 | 1.4 |   |     |
| Alveolus, Mineralization                        |             |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | 3        |          |          |          |          |          | 1  | 3.0 |   |     |

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

1-4 .. Lesion qualified as:  
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Experiment Number: 20006 - 03

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Species/Strain: RATS/HSD

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

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>150 mg/kg | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | * TOTALS |        |        |        |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|
|   | 07          | 07     | 04     | 05     | 07     | 05     | 05     | 06     | 04     | 07     | 06     | 06     | 04     | 05     | 06     | 05     | 07     | 07     | 07     | 05     |          | 06     | 07     | 06     |
| ANIMAL ID                                       | 001126      | 000077 | 000082 | 000093 | 000118 | 000111 | 000113 | 000133 | 000133 | 000133 | 000133 | 000133 | 000133 | 000133 | 000133 | 000133 | 000133 | 000133 | 000133 | 000133 | 000133   | 000133 | 000133 | 000133 |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Foreign Body                                 | X |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   | X | X |   | 11     |
| Inflammation, Chronic Active                 | 1 |   |   | 2 | 2 |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   | 2 | 1 |   | 2 | 2 | 16 1.7 |
| Respiratory Epithelium, Hyperplasia          |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   | 2 |   | 1 |   | 4 1.8  |
| Respiratory Epithelium, Metaplasia, Squamous |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   | 1 |   |   |   | 2 1.0  |
| Trachea                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Inflammation                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 1 2.0  |

**SPECIAL SENSES SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |       |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Ear                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 1     |
| External Ear, Hyperplasia, Squamous   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 1 3.0 |
| Eye                                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49     |       |
| Anterior Chamber, Inflammation, Acute |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 4 2.3  |       |
| Cornea, Inflammation, Acute           |   |   |   |   |   |   | 2 | 1 |   |   |   |   |   |   |   |   | 2 | 2 | 1 | 3 |   | 3 |   | 17 2.3 |       |
| Harderian Gland                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49     |       |
| Lacrimal Gland                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 4     |
| Degeneration                          |   | + |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 4 2.5 |

**URINARY SYSTEM**

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Nephropathy              | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 3 | 4 | 3 | 49 3.4 |
| Renal Tubule, Dilatation |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   | 1 3.0  |
| Urinary Bladder          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

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First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>MALE</b><br><b>300 mg/kg</b> | DAY ON TEST | 0673  | 0727  | 0629  | 0477  | 0575  | 0498  | 0597  | 0665  | 0667  | 0589  | 0777  | 0777  | 0777  | 0778  | 0640  | 0415  | 0650  | 0368  | 0665  | 0727  | 0668  | 0450  | 0651  | 0761  | 0672  |
|  | ANIMAL ID   | 00151 | 00122 | 00133 | 00114 | 00115 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 | 00111 |

males (cont...)

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum<br>Fibrosis             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum<br>Lymphatic, Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum                          | + | + | + | + | A | + | + | A | + | + | + | + | + | + | + | A | + | + | A | A | + | + | + | + | A | + |
| Intestine Small, Jejunum<br>Lymphatic, Ectasia  | A | + | + | + | A | + | + | + | + | + | + | + | + | + | + | A | + | A | + | A | A | + | + | + | A | + |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cholangiofibrosis                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Clear Cell Focus                                |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |
| Eosinophilic Focus                              |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   | X |   |
| Hepatodiaphragmatic Nodule                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |
| Mixed Cell Focus                                |   | X |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Necrosis  |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   | 2 |
| Bile Duct, Cyst                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   | 2 |   |   |   |
| Bile Duct, Fibrosis                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bile Duct, Hyperplasia                          |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |

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

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>300 mg/kg | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|
|   | 0673        | 0772 | 0622 | 0477 | 0577 | 0499 | 0599 | 0611 | 0611 | 0588 | 0677 | 0777 | 0777 | 0777 | 0664 | 0415 | 0650 | 0368 | 0665 | 0722 | 0658 | 0401 | 0661 | 0771 |           |                    | 0645 | 0771 |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                  | 0    | 0    |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                  | 0    | 0    |
|   | 1           | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1         | 1                  | 1    | 1    |
|   | 5           | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 7    | 7    | 7    | 7    | 7    | 7         | 7                  | 7    | 7    |
|   | 1           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5         | 6                  | 7    | 8    |

Oval Cell, Hyperplasia

1

Oral Mucosa

+ +

Hyperplasia, Squamous

Sebaceous Gland, Ectopic Tissue

X

Pancreas

+ +

Angiectasis

Acinus, Atrophy

1

1

Acinus, Hyperplasia

1

4

2

Artery, Inflammation, Chronic Active

2

3

1

2

2

2

2

2

3

2

Salivary Glands

+ +

Metaplasia

1

Stomach, Forestomach

+ +

Hyperplasia

2

2

2

2

2

2

3

3

2

2

2

1

Inflammation

Ulcer

Stomach, Glandular

+ +

Epithelium, Hyperplasia

2

2

Epithelium, Inflammation, Chronic Active

Epithelium, Mineralization

2

2

2

2

2

1

Tongue

+

CARDIOVASCULAR SYSTEM

Blood Vessel

+ +

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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Indole-3-carbinol

Time Report Requested: 09:53:55

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First Dose M/F: 03/14/07 / 03/15/07

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Lab: BAT

|  |  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS MALE</b><br><b>300 mg/kg</b> |  | DAY ON TEST | 0673  | 0727  | 0629  | 0477  | 0575  | 0498  | 0597  | 0665  | 0661  | 0589  | 0777  | 0777  | 0777  | 0778  | 0640  | 0412  | 0658  | 0336  | 0665  | 0727  | 0668  | 0450  | 0661  | 0765  | 0641  | 0767  |
|  |  | ANIMAL ID   | 00151 | 00122 | 00033 | 00044 | 00055 | 00066 | 00077 | 00088 | 00099 | 00100 | 00111 | 00122 | 00133 | 00144 | 00155 | 00166 | 00177 | 00188 | 00199 | 00200 | 00211 | 00222 | 00233 | 00244 | 00255 | 00266 |

males (cont...)

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Inflammation, Chronic Active Mineralization | 2 |   |   |   |   |   |   |   |   |   | 3 | 1 | 2 |   | 2 |   |   | 1 | 2 |   | 1 | 2 | 2 | 2 |   |   |   | 1 |
| Heart                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Cardiomyopathy                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Mineralization                              | 3 |   | 3 | 1 | 3 | 1 | 2 | 3 | 3 | 2 | 2 | 2 | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |
| Atrium, Thrombosis                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |

ENDOCRINE SYSTEM

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Atrophy                    |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Degeneration, Cystic       |   |   |   |   |   |   |   |   |   |   | 2 |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Degeneration, Fatty        |   |   |   |   |   | 2 |   | 2 |   |   | 2 |   | 1 |   |   |   |   |   | 2 |   | 2 |   | 1 |   |   |   |   |   |
| Hyperplasia                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 2 | 2 |   |   |   |   |   |   |   |
| Necrosis                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adrenal Medulla            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                |   | 1 | 2 |   |   | 3 | 1 | 1 |   | 1 |   | 2 |   | 2 |   | 1 |   |   |   |   |   | 1 |   |   |   | 1 |   | 1 |
| Islets, Pancreatic         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 |   |   |
| Parathyroid Gland          | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia                | 2 |   | 2 |   | 2 |   |   |   |   | 3 |   |   |   |   |   | 4 |   |   |   |   |   | 1 |   |   |   |   |   |   |
| Pituitary Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + |
| Pars Distalis, Hyperplasia | 2 |   |   |   | 3 |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |
| Thyroid Gland              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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Experiment Number: 20006 - 03

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Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>300 mg/kg | DAY ON TEST | 0673  | 0727  | 0629  | 0477  | 0575  | 0498  | 0597  | 0661  | 0589  | 0777  | 0777  | 0777  | 0778  | 0640  | 0415  | 0650  | 0368  | 0665  | 0727  | 0668  | 0405  | 0661  | 0771  | 0645  | 0771  | 0672  | males<br>(cont...) |
|   | ANIMAL ID   | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | 00159 | 00160 | 00161 | 00162 | 00163 | 00164 | 00165 | 00166 | 00167 | 00168 | 00169 | 00170 | 00171 | 00172 | 00173 | 00174 | 00175 | 00176 |                    |
|   |             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                    |

C-cell, Hyperplasia  
C-cell, Hypertrophy  
Follicular Cell, Hypertrophy

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Epididymis  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Preputial Gland<br>Cyst<br>Inflammation   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   | 3 |   |   |   |   |   |   | 3 | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Prostate<br>Fibrosis<br>Hyperplasia<br>Inflammation, Acute<br>Inflammation, Chronic Active  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   | 2 |   |   |   | 2 |   |   |   | 2 |   |   | 1 |   |   |   |   |   |   | 1 |   |   |   |   |   |   |
| Seminal Vesicle<br>Inflammation, Acute  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   |   |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Testes<br>Atrophy<br>Artery, Inflammation, Chronic Active<br>Interstitial Cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   | 2 |   | 1 |   | 2 |   | 1 |   |   | 2 | 1 | 1 |   |   | 2 | 2 | 1 |   | 1 | 1 | 1 | 1 | 1 |   |   |   |   |
|   | 2 |   |   |   | 2 |   |   |   |   | 2 | 2 | 2 | 3 |   | 3 | 2 | 3 | 2 |   | 1 | 3 | 2 | 2 |   |   |   |   |

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Indole-3-carbinol

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|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>300 mg/kg | DAY ON TEST | 0673 | 0722 | 0629 | 0477 | 0575 | 0499 | 0597 | 0661 | 0579 | 0717 | 0727 | 0727 | 0727 | 0640 | 0415 | 0658 | 0363 | 0665 | 0727 | 0668 | 0401 | 0661 | 0711 | 0712 | males<br>(cont...) |      |
|   | ANIMAL ID   | 0015 | 0012 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 |                    | 0025 |
|   |             | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |                    | 0    |

HEMATOPOIETIC SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Bone Marrow Hyperplasia   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +   |
| Lymph Node Angiectasis  |   |   |   | + |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |     |
| Mediastinal, Hemorrhage   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |     |
| Mediastinal, Infiltration Cellular, Lipocyte                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3   |
| Mediastinal, Pigmentation, Hemosiderin                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |
| Pancreatic, Hemorrhage  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3   |
| Renal, Pigmentation, Hemosiderin                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |
| Lymph Node, Mandibular Ectasia                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +   |
| Lymph Node, Mesenteric Hyperplasia, Lymphoid Lymphatic, Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1   |
| Spleen Atrophy  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +   |
| Hematopoietic Cell Proliferation                                | 1 | 3 |   | 3 |   |   |   | 2 |   |   |   | 2 | 3 |   | 2 |   |   |   |   |   | 1 | 1 | 2 | 3 | 2   |
| Thymus Atrophy  | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +   |
|   | 3 | 3 | 2 |   | 3 | 2 |   | 2 |   |   | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 2 | 2 |   | 2 | 4 | 2 |   | 1 3 |

INTEGUMENTARY SYSTEM

|               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>300 mg/kg | DAY ON TEST | 0673  | 0722  | 0629  | 0477  | 0575  | 0498  | 0597  | 0661  | 0667  | 0589  | 0777  | 0777  | 0777  | 0640  | 0415  | 0608  | 0363  | 0665  | 0727  | 0658  | 0401  | 0661  | 0751  | 0672  | males<br>(cont...) |
|   | ANIMAL ID   | 00151 | 00152 | 00153 | 00154 | 00155 | 00156 | 00157 | 00158 | 00159 | 00160 | 00161 | 00162 | 00163 | 00164 | 00165 | 00166 | 00167 | 00168 | 00169 | 00170 | 00171 | 00172 | 00173 | 00174 |                    |
|   |             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                    |

Inflammation

Skin

Cyst Epithelial Inclusion

Inflammation

Sebaceous Gland, Hyperplasia

MUSCULOSKELETAL SYSTEM

Bone

Fibrous Osteodystrophy

NERVOUS SYSTEM

Brain

Cyst Epithelial Inclusion

Necrosis

RESPIRATORY SYSTEM

Lung

Edema

Fibrosis

Hemorrhage

Hemorrhage, Multifocal

Inflammation, Chronic

Mineralization

Alveolar Epithelium, Hyperplasia

Alveolus, Infiltration Cellular, Histiocyte

Alveolus, Mineralization

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| DAY ON TEST                           | HARLAN SPRAGUE DAWLEY RATS MALE |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | ANIMAL ID | males (cont...) |      |
|---------------------------------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-----------------|------|
|                                       | 0673                            | 0727  | 0622  | 0477  | 0575  | 0499  | 0597  | 0661  | 0661  | 0588  | 0722  | 0722  | 0722  | 0722  | 0640  | 0415  | 0650  | 0368  | 0665  | 0727  | 0668  | 0401  | 0661  | 0751  |           |                 | 0712 |
| 300 mg/kg                             | 00151                           | 00122 | 00133 | 00144 | 00155 | 00166 | 00177 | 00188 | 00199 | 00200 | 00211 | 00222 | 00233 | 00244 | 00255 | 00266 | 00277 | 00288 | 00299 | 00300 | 00311 | 00322 | 00333 | 00344 | 00355     |                 |      |
| Nose                                  | +                               | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +         | +               |      |
| Foreign Body                          |                                 |       | X     |       |       | X     |       | X     | X     |       | X     |       | X     |       |       |       |       |       |       |       |       |       |       |       |           |                 |      |
| Inflammation, Chronic Active          |                                 |       | 2     |       |       | 1     |       | 2     | 2     | 1     | 1     |       | 1     |       |       |       |       |       |       |       |       | 1     |       |       |           |                 |      |
| Respiratory Epithelium, Hyperplasia   |                                 |       | 1     |       |       |       |       | 1     | 2     |       |       |       |       |       |       |       |       |       |       |       |       | 2     |       |       |           |                 |      |
| Trachea                               | +                               | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +         | +               |      |
| <b>SPECIAL SENSES SYSTEM</b>          |                                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                 |      |
| Eye                                   | +                               | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +         | +               |      |
| Cataract                              |                                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |       |           |                 |      |
| Anterior Chamber, Inflammation, Acute |                                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |       |       |           |                 |      |
| Cornea, Inflammation, Acute           |                                 |       | 1     | 2     |       |       |       | 2     |       | 2     | 1     | 2     |       | 1     |       | 3     |       |       |       |       | 2     |       | 2     |       |           |                 |      |
| Retina, Fibrosis                      |                                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                 |      |
| Harderian Gland                       | +                               | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +         | +               |      |
| Angiectasis                           |                                 |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                 |      |
| <b>URINARY SYSTEM</b>                 |                                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                 |      |
| Kidney                                | +                               | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +         | +               |      |
| Cyst                                  |                                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                 |      |
| Nephropathy                           | 4                               | 3     | 4     | 3     | 4     | 4     | 3     | 3     | 4     | 4     | 3     | 4     | 2     | 4     | 4     | 4     | 3     | 2     | 4     | 4     | 3     | 3     | 3     | 3     | 3         | 3               |      |
| Urinary Bladder                       | +                               | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +         | +               |      |
| Hemorrhage                            |                                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                 |      |
| Inflammation                          |                                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |           |                 |      |

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

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

1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 20006 - 03

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Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol  
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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>300 mg/kg | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |     |     |     |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|-----|-----|-----|---|---|---|---|---|---|---|---|---|---|----|-----|-----|----|-----|
|   | 04          | 07 | 07 | 07 | 01 | 02 | 06 | 07 | 07 | 07 | 07 | 06 | 05 | 07 | 07 | 07 | 06 | 04 | 05 | 07 | 06 | 05 | 07 | 06 | 05 |          |     |     |     |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |
| ANIMAL ID                                       | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |          |     |     |     |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |
| Oval Cell, Hyperplasia                          |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        | 1.0 |     |     |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |
| Oral Mucosa                                     | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50       |     |     |     |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |
| Hyperplasia, Squamous                           |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 3        | 1   | 3.0 |     |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |
| Sebaceous Gland, Ectopic Tissue                 |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          | 1   |     |     |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |
| Pancreas  | +           | +  | +  | +  | +  | A  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 49 |          |     |     |     |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |
| Angiectasis                                     |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        | 1   | 1.0 |     |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |
| Acinus, Atrophy                                 |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          | 2   | 1.0 |     |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |
| Acinus, Hyperplasia                             |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        | 3   | 10  | 2.2 |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |
| Artery, Inflammation, Chronic Active            |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        | 2   | 2   | 3   | 2 | 2 |   | 2 | 2 | 2 |   |   | 2 | 2 | 21 | 2.0 |     |    |     |
| Salivary Glands                                 | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50       |     |     |     |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |
| Metaplasia                                      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        | 2   | 1.0 |     |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |
| Stomach, Forestomach                            | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50       |     |     |     |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |
| Hyperplasia                                     |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2        | 2   | 2   | 1   | 3 |   | 1 |   |   |   | 1 | 1 | 1 | 1 | 22 | 1.8 |     |    |     |
| Inflammation                                    |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |     |     |     |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |     |    |     |
| Ulcer   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |     |     |     |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |     |    |     |
| Stomach, Glandular                              | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50       |     |     |     |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |
| Epithelium, Hyperplasia                         |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |     |     |     |   |   |   |   |   |   |   |   |   |   | 2  | 3   | 2.0 |    |     |
| Epithelium, Inflammation, Chronic Active        |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |     |     |     |   |   |   |   |   |   |   |   |   |   | 2  | 1   | 2.0 |    |     |
| Epithelium, Mineralization                      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1        |     |     |     |   |   |   |   |   |   |   |   |   |   | 2  | 3   | 1   | 10 | 1.8 |
| Tongue  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |     |     |     |   |   |   |   |   |   |   |   |   |   | 1  |     |     |    |     |
| <b>CARDIOVASCULAR SYSTEM</b>                    |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |     |     |     |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |
| Blood Vessel                                    | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | 50  |     |     |   |   |   |   |   |   |   |   |   |   |    |     |     |    |     |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
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| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>300 mg/kg | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | * TOTALS |     |  |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|----------|-----|--|
|   | 04          | 07 | 07 | 07 | 01 | 02 | 06 | 07 | 07 | 07 | 07 | 06 | 05 | 07 | 07 | 06 | 04 | 05 | 07 | 06 | 05 | 07 | 06 | 05 |     |          |     |  |
| ANIMAL ID                                       | 06          | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |     |          |     |  |
| Inflammation, Chronic Active Mineralization     | 1           | 2  | 2  |    |    |    | 2  | 2  | 2  | 2  | 3  |    | 2  |    | 2  | 2  | 2  | 3  | 2  | 2  |    |    | 2  | 2  | 29  | 1.9      |     |  |
| Heart   | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50  |          |     |  |
| Cardiomyopathy                                  | 3           | 2  | 3  |    | 1  | 2  | 2  | 2  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 2  | 2  | 3  | 1  | 1  | 3  | 3   | 48       | 2.4 |  |
| Mineralization                                  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1   | 3.0      |     |  |
| Atrium, Thrombosis                              |             |    |    |    |    |    | 3  | 3  | 4  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 3   | 3.3      |     |  |
| <b>ENDOCRINE SYSTEM</b>                         |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |          |     |  |
| Adrenal Cortex                                  | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50  |          |     |  |
| Atrophy   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1   | 3.0      |     |  |
| Degeneration, Cystic                            |             |    | 2  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 3  |    |    |    |    |    | 4  | 2.0 |          |     |  |
| Degeneration, Fatty                             |             | 2  |    | 1  |    |    |    |    | 2  |    | 2  | 3  |    | 1  |    | 2  | 3  |    |    | 1  |    |    |    | 1  | 16  | 1.8      |     |  |
| Hyperplasia                                     |             |    |    |    |    |    |    |    | 2  | 2  |    | 2  |    |    |    |    |    |    |    |    |    |    |    |    | 6   | 2.0      |     |  |
| Necrosis  | 1           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 2   | 1.5      |     |  |
| Adrenal Medulla                                 | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50  |          |     |  |
| Hyperplasia                                     |             |    |    |    |    |    | 1  | 2  | 3  |    |    |    | 1  |    |    | 3  |    |    | 1  |    | 1  |    |    | 19 | 1.5 |          |     |  |
| Islets, Pancreatic                              | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 50  |          |     |  |
| Hyperplasia                                     |             |    |    |    |    |    |    |    |    |    |    |    |    |    | 1  |    |    |    |    |    |    |    |    |    | 3   | 2.0      |     |  |
| Parathyroid Gland                               | +           | +  | +  | +  | +  | M  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 47  |          |     |  |
| Hyperplasia                                     |             |    |    |    |    |    |    |    |    |    | 3  |    |    |    |    |    | 3  |    |    |    |    |    |    | M  | +   | 8        | 2.5 |  |
| Pituitary Gland                                 | +           | +  | +  | +  | +  | +  | I  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | 47  |          |     |  |
| Pars Distalis, Hyperplasia                      |             |    |    | 1  |    |    |    |    | 1  |    |    | 4  |    | 1  | 2  |    |    |    | 2  |    |    |    | 2  | 1  | M   | 12       | 1.8 |  |
| Thyroid Gland                                   | +           | +  | A  | +  | +  | A  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | A  | +  | +   | +        | 47  |  |

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>300 mg/kg | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
|   | 04          | 07 | 07 | 07 | 01 | 02 | 06 | 07 | 07 | 07 | 07 | 06 | 05 | 07 | 07 | 07 | 06 | 04 | 05 | 07 | 06 | 05 | 07 | 06 | 05 |          |
| ANIMAL ID                                       | 06          | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 00 |          |
|   | 2           | 7  | 0  | 7  | 0  | 8  | 1  | 2  | 0  | 9  | 9  | 5  | 9  | 6  | 9  | 1  | 6  | 1  | 6  | 4  | 9  | 2  | 2  | 1  | 1  |          |
|   | 0           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |          |
|   | 1           | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 2  |          |
|   | 7           | 7  | 7  | 7  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 0  |          |
|   | 6           | 7  | 8  | 9  | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 0  |          |

|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Nose                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Foreign Body                        |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   | X |   |   |   |   |   |   |   | X | 10     |
| Inflammation, Chronic Active        |   |   |   | 2 |   |   |   | 2 | 1 |   | 2 |   |   |   | 1 | 2 |   |   |   |   |   |   |   | 2 | 15 1.5 |
| Respiratory Epithelium, Hyperplasia |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   | 1 |   |   |   |   |   |   |   |   | 3 | 7 1.7  |

|         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|

SPECIAL SENSES SYSTEM

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |       |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|-------|
| Eye                                   | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +      | 49    |
| Cataract                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        | 1 2.0 |
| Anterior Chamber, Inflammation, Acute |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 3 2.0  |       |
| Cornea, Inflammation, Acute           |   |   |   | 2 |   | 2 | 3 | 1 | 2 |   | 2 | 3 |   |   | 1 |   | 1 |   |   | 2 |   |   | 2 | 21 1.9 |       |
| Retina, Fibrosis                      |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |        | 1 3.0 |

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Harderian Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Angiectasis     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0 |

URINARY SYSTEM

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |        |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|
| Kidney      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |        |
| Cyst        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   | 1 2.0 |        |
| Nephropathy | 4 | 3 | 3 | 3 | 2 | 2 | 4 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 3 | 3 | 4 | 4     | 50 3.4 |

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Hemorrhage      |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   | 1 2.0 |
| Inflammation    |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   | 1 1.0 |

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

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

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\*\*\* END OF MALE DATA \*\*\*

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0 mg/kg | DAY ON TEST | 0509  | 0730  | 0729  | 0729  | 0614  | 0729  | 0665  | 0662  | 0770  | 0779  | 0661  | 0770  | 0779  | 0770  | 0779  | 0662  | 0663  | 0373  | 0779  | 0779  | 0770  | 0779  | 0538  | 0422  | females<br>(cont...) |
|   | ANIMAL ID   | 00201 | 00202 | 00203 | 00204 | 00205 | 00206 | 00207 | 00208 | 00209 | 00210 | 00211 | 00212 | 00213 | 00214 | 00215 | 00216 | 00217 | 00218 | 00219 | 00220 | 00221 | 00222 | 00223 | 00224 |                      |

ALIMENTARY SYSTEM

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Ileum    | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum  | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Basophilic Focus          |   |   |   |   |   |   |   |   |   |   | X | X | X | X | X |   |   |   | X | X | X |   |   |   |   |
| Clear Cell Focus          |   |   | X | X |   |   |   |   | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Mixed Cell Focus          |   |   | X |   |   |   |   |   | X |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Necrosis                  |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Pigmentation              |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bile Duct, Cyst           |   |   | 2 |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bile Duct, Cyst, Multiple |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |
| Bile Duct, Hyperplasia    |   |   |   | 1 |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Oral Mucosa               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

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+ .. Tissue examined microscopically  
X .. Lesion present  
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Route: GAVAGE

Species/Strain: RATS/HSD

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Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0 mg/kg | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | ANIMAL ID             | females<br>(cont...)  |                       |                       |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 0<br>5<br>0<br>9      | 0<br>7<br>3<br>0      | 0<br>7<br>2<br>0      | 0<br>7<br>2<br>9      | 0<br>6<br>1<br>4      | 0<br>7<br>2<br>9      | 0<br>6<br>4<br>5      | 0<br>6<br>4<br>2      | 0<br>7<br>3<br>0      | 0<br>7<br>1<br>9      | 0<br>6<br>8<br>1      | 0<br>7<br>3<br>0      | 0<br>7<br>2<br>9      | 0<br>7<br>3<br>0      | 0<br>6<br>2<br>2      | 0<br>6<br>4<br>2      | 0<br>3<br>7<br>3      | 0<br>7<br>2<br>9      | 0<br>7<br>1<br>9      | 0<br>7<br>3<br>0      |                       |                       | 0<br>7<br>1<br>9      | 0<br>5<br>3<br>8      | 0<br>4<br>2<br>2      |
|   | 0<br>0<br>2<br>0<br>1 | 0<br>0<br>2<br>0<br>2 | 0<br>0<br>2<br>0<br>3 | 0<br>0<br>2<br>0<br>4 | 0<br>0<br>2<br>0<br>5 | 0<br>0<br>2<br>0<br>6 | 0<br>0<br>2<br>0<br>7 | 0<br>0<br>2<br>0<br>8 | 0<br>0<br>2<br>0<br>9 | 0<br>0<br>2<br>0<br>0 | 0<br>0<br>2<br>0<br>1 | 0<br>0<br>2<br>0<br>2 | 0<br>0<br>2<br>0<br>3 | 0<br>0<br>2<br>0<br>4 | 0<br>0<br>2<br>0<br>5 | 0<br>0<br>2<br>0<br>6 | 0<br>0<br>2<br>0<br>7 | 0<br>0<br>2<br>0<br>8 | 0<br>0<br>2<br>0<br>9 | 0<br>0<br>2<br>0<br>0 | 0<br>0<br>2<br>0<br>1 | 0<br>0<br>2<br>0<br>2 | 0<br>0<br>2<br>0<br>3 | 0<br>0<br>2<br>0<br>4 | 0<br>0<br>2<br>0<br>5 |

Degeneration, Fatty  
Hyperplasia  
Hypertrophy  
Bilateral, Degeneration, Cystic

2  
3  
1  
1  
2  
2  
3  
3

Adrenal Medulla  
Hyperplasia

+  
1 1

Islets, Pancreatic

+ +

Parathyroid Gland

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

Pituitary Gland  
Pars Distalis, Hyperplasia

+  
3 1 4 1 2 3 2 4 1 2

Thyroid Gland  
C-cell, Hyperplasia  
Follicular Cell, Hyperplasia  
Follicular Cell, Hypertrophy

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland  
Cyst  
Inflammation

+  
3  
1

Ovary

+ +

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

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0 mg/kg | DAY ON TEST |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | females<br>(cont...) |    |    |    |    |
|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------------|----|----|----|----|
|   | 05          | 07 | 07 | 07 | 06 | 07 | 06 | 06 | 07 | 07 | 06 | 07 | 07 | 07 | 07 | 06 | 06 | 03 | 07 | 07 |                      | 07 | 07 | 05 | 04 |
| ANIMAL ID                                       | 00          | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00                   | 00 | 00 | 00 |    |
| Atrophy   |             | 2  |    |    | 3  | 3  | 1  | 1  | 2  | 2  | 1  | 1  | 1  | 2  | 3  | 4  | 3  | 2  |    | 2  | 1                    | 2  | 1  | 1  | 2  |
| Cyst  | 3           | 2  | 2  | 1  |    | 2  |    |    | 1  | 1  |    |    |    | 2  | 2  | 3  |    |    |    |    |                      | 1  |    | 1  |    |
| Inflammation, Chronic Active                    |             |    |    |    |    | 2  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                      |    |    |    |    |
| Uterus  | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +                    | +  | +  | +  |    |
| Dilatation                                      |             |    |    |    |    |    | 3  |    |    |    |    |    |    |    | 4  | 3  | 1  | 3  |    |    |                      |    | 2  |    |    |
| Inflammation, Histiocytic, Focal                |             |    |    |    |    |    |    |    |    |    | 1  |    |    |    |    |    |    |    |    |    |                      |    |    |    |    |
| Inflammation, Acute                             |             |    |    |    | 1  |    |    |    |    |    |    | 1  |    |    |    |    |    |    |    |    | 2                    |    |    |    |    |
| Endometrium, Hyperplasia, Cystic                |             | 1  |    |    |    | 1  | 1  |    | 1  | 2  | 2  | 1  | 3  | 2  |    |    |    |    |    | 2  | 3                    | 3  | 3  | 2  | 2  |
| Endometrium, Metaplasia, Squamous               |             |    |    |    |    |    |    |    |    |    |    | 1  |    |    | 3  | 2  | 2  | 3  |    |    |                      |    |    | 1  |    |
| Vagina  |             |    |    |    |    |    | +  |    |    |    |    |    |    |    |    |    |    |    |    |    |                      |    |    |    |    |
| <b>HEMATOPOIETIC SYSTEM</b>                     |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                      |    |    |    |    |
| Bone Marrow                                     | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +                    | +  | +  | +  |    |
| Hyperplasia                                     | 3           |    |    |    | 3  |    |    | 3  |    | 2  |    |    |    |    | 2  | 2  | 3  | 3  |    |    | 3                    |    | 3  |    |    |
| Lymph Node                                      |             |    |    |    | +  |    |    | +  |    |    |    |    |    |    |    | +  |    |    |    |    | +                    |    |    |    |    |
| Inguinal, Hyperplasia, Lymphoid                 |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                      |    |    |    |    |
| Lumbar, Hemorrhage                              |             |    |    |    |    |    |    |    | 3  |    |    |    |    |    |    |    |    |    |    |    |                      | 3  |    |    |    |
| Lumbar, Hyperplasia, Lymphoid                   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                      |    |    |    |    |
| Mediastinal, Hemorrhage                         |             |    |    |    |    | 4  |    |    |    |    |    |    |    |    |    |    | 3  |    |    |    |                      |    |    |    |    |
| Mediastinal, Infiltration Cellular, Histiocyte  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                      |    |    |    |    |
| Lymph Node, Mandibular                          | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +                    | +  | +  | +  |    |
| Lymph Node, Mesenteric                          | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +                    | +  | +  | +  |    |
| Pigmentation, Hemosiderin                       |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |                      |    |    |    |    |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0 mg/kg | DAY ON TEST           |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | females<br>(cont...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|   | 0<br>5<br>0<br>9      | 0<br>7<br>3<br>0      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>6<br>1<br>4      | 0<br>7<br>2<br>9      | 0<br>6<br>4<br>5      | 0<br>6<br>4<br>2      | 0<br>7<br>3<br>0      | 0<br>7<br>1<br>9      | 0<br>6<br>8<br>1      | 0<br>7<br>3<br>0      | 0<br>7<br>2<br>9      | 0<br>7<br>3<br>0      | 0<br>6<br>2<br>9      | 0<br>6<br>3<br>2      | 0<br>6<br>4<br>2      | 0<br>3<br>7<br>3      | 0<br>7<br>2<br>9      | 0<br>7<br>1<br>9      | 0<br>7<br>3<br>0      | 0<br>7<br>1<br>9      | 0<br>5<br>3<br>8      | 0<br>4<br>2<br>2      |                       |                      |
| ANIMAL ID                                       | 0<br>0<br>2<br>0<br>1 | 0<br>0<br>2<br>0<br>2 | 0<br>0<br>2<br>0<br>3 | 0<br>0<br>2<br>0<br>4 | 0<br>0<br>2<br>0<br>5 | 0<br>0<br>2<br>0<br>6 | 0<br>0<br>2<br>0<br>7 | 0<br>0<br>2<br>0<br>8 | 0<br>0<br>2<br>0<br>9 | 0<br>0<br>2<br>0<br>0 | 0<br>0<br>2<br>0<br>1 | 0<br>0<br>2<br>0<br>2 | 0<br>0<br>2<br>0<br>3 | 0<br>0<br>2<br>0<br>4 | 0<br>0<br>2<br>0<br>5 | 0<br>0<br>2<br>0<br>6 | 0<br>0<br>2<br>0<br>7 | 0<br>0<br>2<br>0<br>8 | 0<br>0<br>2<br>0<br>9 | 0<br>0<br>2<br>0<br>0 | 0<br>0<br>2<br>0<br>1 | 0<br>0<br>2<br>0<br>2 | 0<br>0<br>2<br>0<br>3 | 0<br>0<br>2<br>0<br>4 | 0<br>0<br>2<br>0<br>5 |                      |

|                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spleen                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hematopoietic Cell Proliferation | 3 |   | 2 |   | 3 | 2 | 3 | 4 | 2 | 2 | 2 |   | 3 |   | 2 | 2 | 3 | 3 | 2 |   | 3 | 3 | 1 | 3 | 1 |
| Thymus                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Atrophy                          | 2 | 2 | 4 | 3 | 4 | 2 |   |   | 3 | 1 | 3 |   |   | 1 | 3 | 2 | 2 |   |   |   | 2 | 1 | 2 | 2 | 1 |
| Epithelial Cell, Hyperplasia     |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |

INTEGUMENTARY SYSTEM

|                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland         | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Galactocele           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia           |   |   |   |   |   |   |   |   |   | 1 |   |   | 2 |   | 1 |   |   |   |   |   |   | 1 |   |   |   |
| Inflammation          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Chronic |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |
| Duct, Dilatation      |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Skin                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

RESPIRATORY SYSTEM

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

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

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

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | females<br>(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
|   | 059         | 073   | 072   | 072   | 061   | 072   | 064   | 064   | 063   | 071   | 077   | 066   | 077   | 073   | 073   | 062   | 064   | 037   | 073   | 072   | 071   | 073   | 071   | 053   | 044   |                      |
| ANIMAL ID                                       | 00200       | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 |                      |
| Lung  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
| Inflammation, Granulomatous                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
| Inflammation, Chronic                           | 1           | 2     | 2     | 3     |       | 2     |       | 3     | 2     |       | 3     | 3     | 1     | 2     | 3     | 3     |       | 3     | 2     |       | 2     |       |       |       |       |                      |
| Alveolus, Infiltration Cellular, Histiocyte     |             | 2     |       |       | 3     |       |       |       |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       | 1     |                      |
| Nose  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
| Foreign Body                                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
| Inflammation, Chronic Active                    |             |       |       |       |       |       |       | 1     | 1     |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
| Olfactory Epithelium, Degeneration              |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
| Trachea   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
| <b>SPECIAL SENSES SYSTEM</b>                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
| Eye   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
| Cataract  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
| Harderian Gland                                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
| <b>URINARY SYSTEM</b>                           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
| Kidney  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
| Nephropathy                                     | 2           | 1     | 1     | 2     | 1     | 2     | 1     | 1     | 2     |       | 2     |       | 1     | 1     | 2     | 3     | 1     | 1     | 2     | 2     | 2     | 2     | 1     | 1     | 2     |                      |
| Urinary Bladder                                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|------|------|------|
|   | 0688        | 0681 | 0488 | 0783 | 0585 | 0782 | 0782 | 0681 | 0482 | 0388 | 0680 | 0285 | 0484 | 0684 | 0783 | 0782 | 0783 | 0580 | 0782 | 0683 |          | 0789 | 0685 | 0783 | 0685 | 0581 |
| ANIMAL ID                                       | 0022        | 0022 | 0022 | 0022 | 0023 | 0023 | 0023 | 0023 | 0023 | 0023 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022     | 0022 | 0022 | 0022 | 0022 | 0022 |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0        | 0    | 0    | 0    | 0    | 0    |
|   | 6           | 6    | 4    | 7    | 5    | 7    | 7    | 6    | 4    | 3    | 6    | 2    | 5    | 4    | 6    | 7    | 7    | 7    | 5    | 7    | 6        | 7    | 6    | 7    | 6    | 5    |
|   | 8           | 1    | 8    | 3    | 5    | 2    | 2    | 1    | 2    | 8    | 0    | 8    | 5    | 4    | 4    | 3    | 2    | 3    | 0    | 2    | 9        | 3    | 9    | 3    | 5    | 1    |
|   | 8           | 1    | 8    | 0    | 8    | 9    | 9    | 7    | 5    | 9    | 7    | 8    | 2    | 6    | 5    | 0    | 9    | 0    | 2    | 9    | 0        | 5    | 0    | 6    | 3    |      |

ALIMENTARY SYSTEM

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Intestine Large, Cecum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Intestine Large, Colon    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Intestine Large, Rectum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Intestine Small, Duodenum | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48    |
| Intestine Small, Ileum    | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47    |
| Intestine Small, Jejunum  | + | + | + | + | + | + | + | A | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47    |
| Liver                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Angiectasis               |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   | 1 1.0 |
| Basophilic Focus          | X |   |   | X | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X |   | X |   |   | 14    |
| Clear Cell Focus          |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | 6     |
| Mixed Cell Focus          |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | 5     |
| Necrosis                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0 |
| Pigmentation              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 3.0 |
| Bile Duct, Cyst           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 2.5 |
| Bile Duct, Cyst, Multiple |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 2.5 |
| Bile Duct, Hyperplasia    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 1.5 |
| Oral Mucosa               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Pancreas                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|   | 0688        | 0681  | 0488  | 0783  | 0585  | 0782  | 0782  | 0681  | 0482  | 0385  | 0687  | 0288  | 0585  | 0484  | 0684  | 0783  | 0782  | 0580  | 0783  | 0685  | 0786  | 0783  | 0685  | 0581  |          |
| ANIMAL ID                                       | 00226       | 00227 | 00228 | 00229 | 00230 | 00231 | 00232 | 00233 | 00234 | 00235 | 00236 | 00237 | 00238 | 00239 | 00240 | 00241 | 00242 | 00243 | 00244 | 00245 | 00246 | 00247 | 00248 | 00249 | 00250    |
|   | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Acinus, Hyperplasia                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1 | 2.0 |
| Artery, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 1 | 3.0 |
| Salivary Glands<br>Inflammation      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  |   |     |
|                                      | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 50 | 1 | 2.0 |
| Stomach, Forestomach<br>Hyperplasia  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 2 | 2.0 |
| Inflammation                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 | 1.0 |
| Ulcer                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 | 2.0 |
| Stomach, Glandular<br>Ulcer          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  |   |     |
| Epithelium, Hyperplasia              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 1 | 2.0 |
| Tongue<br>Erosion                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | +  | 1 |     |
|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 1 | 3.0 |

**CARDIOVASCULAR SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Blood Vessel<br>Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |    |     |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 | 1  | 3.0 |
| Heart<br>Cardiomyopathy                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |    |     |
| Epicardium, Inflammation                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 24 | 1.2 |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 1  | 2.0 |

**ENDOCRINE SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Adrenal Cortex<br>Degeneration, Cystic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  |    |     |
|  | 1 | 2 |   | 2 |   | 2 | 2 |   | 2 |   |   |   |   | 3 | 3 | 2 |   |   | 4 |   |   | 3 |   | 2 |    |    |     |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 50 | 16 | 2.3 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |       |       |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|
|   | 0688        | 0681  | 0488  | 0783  | 0585  | 0782  | 0782  | 0681  | 0482  | 0385  | 0688  | 0285  | 0484  | 0686  | 0787  | 0787  | 0587  | 0785  | 0787  | 0686  |          | 0787  | 0685  | 0783  | 0589  | 0783  | 0685  | 0581  |
| ANIMAL ID                                       | 00226       | 00227 | 00228 | 00229 | 00230 | 00231 | 00232 | 00233 | 00234 | 00235 | 00236 | 00237 | 00238 | 00239 | 00240 | 00241 | 00242 | 00243 | 00244 | 00245 | 00246    | 00247 | 00248 | 00249 | 00250 | 00251 | 00252 | 00253 |

|                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |
|---------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Degeneration, Fatty             | 2 |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 5  | 2.4 |
| Hyperplasia                     | 2 | 3 |   | 2 |   | 4 |   |   |   | 4 | 1 |   | 1 |   | 1 |   |   |   | 2 |   | 1 |   | 4 |   |   | 4 |   |    | 18 | 2.3 |
| Hypertrophy                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  | 1.0 |
| Bilateral, Degeneration, Cystic |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 |   |   |   |   |   |   |   |   |    | 1  | 4.0 |
| Adrenal Medulla                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |     |
| Hyperplasia                     | 1 | 1 |   | 1 |   |   | 2 | 1 |   |   | 1 |   |   |   |   |   |   |   | 1 | 1 |   |   |   |   |   |   |   |    | 15 | 1.1 |
| Islets, Pancreatic              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |     |
| Parathyroid Gland               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 47 |     |
| Pituitary Gland                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |     |
| Pars Distalis, Hyperplasia      |   |   | 1 | 4 |   | 2 | 2 | 4 | 3 |   |   |   |   |   | 3 |   |   |   |   |   |   |   | 3 |   |   | 3 |   |    | 19 | 2.5 |
| Thyroid Gland                   | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |    |     |
| C-cell, Hyperplasia             | 3 |   |   | 2 |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 7  | 2.0 |
| Follicular Cell, Hyperplasia    |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  | 2.0 |
| Follicular Cell, Hypertrophy    | 1 | 2 |   |   |   | 3 | 2 | 1 |   |   |   |   | 2 | 1 | 1 | 1 |   |   | 1 | 1 |   |   |   |   |   |   | 1 |    | 27 | 1.6 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Cyst           |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   | 3 |   |   |   |   |   |   |    | 5   | 2.8 |
| Inflammation   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |     |
| Ovary          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |

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

+ .. Tissue examined microscopically

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0 mg/kg | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |      |   |           |            |            |            |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|------|---|-----------|------------|------------|------------|
|   | 0688        | 0681 | 0488 | 0730 | 0538 | 0729 | 0779 | 0627 | 0435 | 0369 | 0287 | 0548 | 0464 | 0673 | 0772 | 0770 | 0572 | 0763 | 0673 | 0656 |          | 0561 | 0513 |   |           |            |            |            |
| ANIMAL ID                                       | 00226       | 0007 | 0008 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002 | 0002     | 0002 |      |   |           |            |            |            |
| Atrophy   | 2           |      | 1    | 2    |      | 3    |      | 1    | 1    | 1    | 3    |      | 3    | 1    | 3    | 2    | 1    | 1    |      | 2    | 3        |      | 4    | 3 | 1         | <b>40</b>  | <b>2.0</b> |            |
| Cyst  |             |      |      |      | 1    |      | 2    | 4    |      |      |      |      |      |      |      |      |      | 2    |      |      | 4        |      |      |   |           | <b>17</b>  | <b>2.0</b> |            |
| Inflammation, Chronic Active                    |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |   |           | <b>1</b>   | <b>2.0</b> |            |
| Uterus  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | + | +         | <b>50</b>  |            |            |
| Dilatation                                      |             |      |      |      |      |      |      |      |      | 4    |      | 1    |      |      |      |      |      | 2    |      |      |          |      |      |   |           | <b>9</b>   | <b>2.6</b> |            |
| Inflammation, Histiocytic, Focal                |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |   |           | <b>1</b>   | <b>1.0</b> |            |
| Inflammation, Acute                             |             |      | 1    |      |      |      |      |      |      |      |      |      |      | 1    |      |      |      |      |      |      |          |      |      |   |           | <b>5</b>   | <b>1.2</b> |            |
| Endometrium, Hyperplasia, Cystic                | 1           |      | 1    | 1    |      |      |      |      |      |      | 1    | 2    |      | 2    | 1    | 2    | 1    |      | 1    | 3    | 3        | 2    |      | 2 | <b>29</b> | <b>1.8</b> |            |            |
| Endometrium, Metaplasia, Squamous               |             |      | 1    |      |      | 3    |      | 1    |      |      |      |      |      | 2    |      |      |      | 3    |      |      |          |      |      | 1 | <b>12</b> | <b>1.9</b> |            |            |
| Vagina  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |   |           |            | <b>2</b>   |            |
| <b>HEMATOPOIETIC SYSTEM</b>                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |   |           |            |            |            |
| Bone Marrow                                     | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | + | +         | +          | <b>50</b>  |            |
| Hyperplasia                                     |             | 2    | 2    |      |      | 1    |      | 3    |      | 2    |      | 2    |      |      |      | 3    |      |      |      | 3    |          |      | 2    |   | 1         | 3          | <b>21</b>  | <b>2.4</b> |
| Lymph Node                                      |             |      |      |      |      | +    |      |      |      | +    |      |      |      |      |      |      |      |      |      |      |          |      |      |   |           |            | <b>7</b>   |            |
| Inguinal, Hyperplasia, Lymphoid                 |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      | 3    |   |           |            | <b>1</b>   | <b>3.0</b> |
| Lumbar, Hemorrhage                              |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |   |           |            | <b>2</b>   | <b>3.0</b> |
| Lumbar, Hyperplasia, Lymphoid                   |             |      |      |      |      |      |      |      |      |      | 3    |      |      |      |      |      |      |      |      |      |          |      |      |   |           |            | <b>1</b>   | <b>3.0</b> |
| Mediastinal, Hemorrhage                         |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |   |           |            | <b>2</b>   | <b>3.5</b> |
| Mediastinal, Infiltration Cellular, Histiocyte  |             |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |   |           |            | <b>1</b>   | <b>2.0</b> |
| Lymph Node, Mandibular                          | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | + | +         | +          | <b>50</b>  |            |
| Lymph Node, Mesenteric                          | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +        | +    | +    | + | +         | +          | <b>50</b>  |            |
| Pigmentation, Hemosiderin                       |             |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |      |      |   |           |            | <b>1</b>   | <b>2.0</b> |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
 A .. Autolysis precludes evaluation  
 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 20006 - 03

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0 mg/kg | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|   | 0688        | 0681 | 0488 | 0730 | 0538 | 0729 | 0729 | 0617 | 0425 | 0389 | 0607 | 0288 | 0546 | 0445 | 0730 | 0779 | 0770 | 0572 | 0730 | 0665 | 0735 | 0661 | 0513 | 0513 |      |          |
|   | ANIMAL ID   | 0022 | 0022 | 0022 | 0022 | 0023 | 0033 | 0033 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 | 0022 |          |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|-----|
| Spleen Hematopoietic Cell Proliferation     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 36 | 2.5 |     |
| Thymus Atrophy Epithelial Cell, Hyperplasia | + | + | M | + | + | + | + | + | M | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | 47 | 38 | 2.2 |     |
|   |   |   | 4 |   | 2 | 4 |   | 2 | 2 |   | 1 | 2 | 1 | 2 | 3 | 3 |   | 1 | 2 | 4 | 1 | 1 | 1 | 2 | 2  | 2  | 1   | 3.0 |

INTEGUMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|-----|
| Mammary Gland Galactocele Hyperplasia Inflammation Inflammation, Chronic Duct, Dilatation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 8   | 1.3 |
|   |   |   |   |   |   |   |   |   |   |   |   |   | 4 |   | 2 |   |   | 1 | 1 |   |   |   |   | 1 |    | 1 | 4.0 | 3.0 |
| Skin  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |     |     |

MUSCULOSKELETAL SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |  |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|--|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |   |  |
| Skeletal Muscle |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 |  |

NERVOUS SYSTEM

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Brain Necrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 3.0 |
|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3 |     |

RESPIRATORY SYSTEM

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

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>0 mg/kg | DAY ON TEST |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | * TOTALS |        |        |        |  |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|--|
|   | 0688        | 0681   | 0488   | 0730   | 0538   | 0729   | 0729   | 0627   | 0435   | 0369   | 0367   | 0288   | 0552   | 0446   | 0675   | 0723   | 0723   | 0570   | 0730   | 0665   |          | 0735   | 0665   | 0513   |  |
| ANIMAL ID                                       | 002226      | 002227 | 002228 | 002229 | 002230 | 002231 | 002232 | 002233 | 002234 | 002235 | 002236 | 002237 | 002238 | 002239 | 002240 | 002241 | 002242 | 002243 | 002244 | 002245 | 002246   | 002247 | 002248 | 002249 |  |
| Lung  | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | +      | +      | 50     |  |
| Inflammation, Granulomatous                     |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |        |        | 1 1.0  |  |
| Inflammation, Chronic                           | 2           | 3      | 2      | 2      | 2      | 3      | 2      | 3      |        | 2      |        | 1      |        |        | 2      | 3      | 2      | 1      |        | 3      |          | 2      | 3      | 34 2.3 |  |
| Alveolus, Infiltration Cellular, Histiocyte     |             |        | 1      |        |        |        |        | 1      |        |        | 1      | 2      | 1      | 1      |        |        | 2      |        | 2      |        |          |        | 1      | 13 1.5 |  |
| Nose  | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | +      | +      | 49     |  |
| Foreign Body                                    |             |        | X      |        |        |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |          |        |        | 3      |  |
| Inflammation, Chronic Active                    |             |        | 2      |        |        |        |        |        |        |        |        |        |        |        | 2      |        |        |        |        |        |          |        |        | 5 1.4  |  |
| Olfactory Epithelium, Degeneration              |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1      |        |          |        |        | 1 1.0  |  |
| Trachea   | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | +      | +      | 50     |  |
| <b>SPECIAL SENSES SYSTEM</b>                    |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |        |        |        |  |
| Eye   | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | +      | +      | 50     |  |
| Cataract  |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |        |        | 1 2.0  |  |
| Harderian Gland                                 | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | +      | +      | 50     |  |
| <b>URINARY SYSTEM</b>                           |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |          |        |        |        |  |
| Kidney  | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +        | +      | +      | 50     |  |
| Nephropathy                                     | 1           | 1      | 1      | 2      | 1      | 1      | 2      | 1      | 2      |        | 3      |        | 1      | 2      | 3      | 2      | 2      |        | 2      | 3      | 2        | 3      | 2      | 45 1.7 |  |
| Urinary Bladder                                 | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | M      | +      | +        | +      | +      | 49     |  |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE<br/>75 mg/kg</b> | DAY ON TEST | 0719  | 0729  | 0779  | 0770  | 0662  | 0661  | 0552  | 0551  | 0662  | 0663  | 0771  | 0666  | 0337  | 0667  | 0667  | 0777  | 0777  | 0777  | 0777  | 0777  | 0337  | 0777  | 0777  | 0559  | 0777  | 0777  | 0559  |
|   | ANIMAL ID   | 00251 | 00252 | 00253 | 00254 | 00255 | 00256 | 00257 | 00258 | 00259 | 00260 | 00261 | 00262 | 00263 | 00264 | 00265 | 00266 | 00267 | 00268 | 00269 | 00270 | 00271 | 00272 | 00273 | 00274 | 00275 | 00276 | 00277 |
|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

females  
(cont...)

**ALIMENTARY SYSTEM**

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus Inflammation      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum   | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + |
| Intestine Small, Ileum      | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + |
| Intestine Small, Jejunum    | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | + | + | + | + |
| Liver                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Basophilic Focus            |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   | X | X |   |   |   | X |   |   |   |   |   |   |
| Cholangiofibrosis           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Clear Cell Focus            | X |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   | X | X |   |   | X |   |   |
| Eosinophilic Focus          |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Mixed Cell Focus            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |
| Necrosis                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thrombosis                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bile Duct, Cyst             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bile Duct, Cyst, Multiple   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Centrilobular, Degeneration |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Mesentery

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

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

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

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | ANIMAL ID | females (cont...) |
|-------------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------------------|
|             | 0719                              | 0729  | 0779  | 0779  | 0622  | 0662  | 0531  | 0662  | 0667  | 0663  | 0763  | 0667  | 0365  | 0679  | 0779  | 0779  | 0779  | 0779  | 0779  | 0779  | 0305  | 0719  | 0779  | 0509  |           |                   |
| 75 mg/kg    | 00251                             | 00022 | 00023 | 00024 | 00025 | 00026 | 00027 | 00028 | 00029 | 00030 | 00031 | 00032 | 00033 | 00034 | 00035 | 00036 | 00037 | 00038 | 00039 | 00040 | 00041 | 00042 | 00043 | 00044 | 00045     |                   |

Artery, Inflammation, Chronic Active

Oral Mucosa

Pancreas

Acinus, Hyperplasia

Artery, Inflammation, Chronic Active

Salivary Glands

Stomach, Forestomach

Hyperplasia

Pigmentation, Melanin

Stomach, Glandular

Tongue

Inflammation

Tooth

**CARDIOVASCULAR SYSTEM**

Blood Vessel

Inflammation, Chronic Active

Heart

Cardiomyopathy

Atrium, Thrombosis

Epicardium, Inflammation

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

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|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      |                      |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>75 mg/kg | DAY ON TEST | 0719  | 0719  | 0719  | 0719  | 0661  | 0661  | 0551  | 0662  | 0663  | 0763  | 0663  | 0367  | 0667  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0373  | 0777  | 0777  | 0575  | 0777  | 0777  | 0575 | females<br>(cont...) |
|  | ANIMAL ID   | 00251 | 00252 | 00253 | 00254 | 00255 | 00256 | 00257 | 00258 | 00259 | 00260 | 00261 | 00262 | 00263 | 00264 | 00265 | 00266 | 00267 | 00268 | 00269 | 00270 | 00271 | 00272 | 00273 | 00274 | 00275 |      |                      |
|  |             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    |                      |

ENDOCRINE SYSTEM

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Degeneration, Cystic         |   | 2 |   |   |   |   |   |   |   |   |   | 2 | 1 | 1 |   |   |   | 3 |   |   |   | 2 | 3 |   |   |   |   |
| Degeneration, Fatty          |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Hyperplasia                  |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   | 2 |   |   |   |   |   |   | 2 |   |   |   |   |
| Inflammation                 |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Thrombosis                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Adrenal Medulla              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hyperplasia                  | 2 |   |   | 2 |   |   |   |   |   | 1 |   |   | 2 |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |
| Islets, Pancreatic           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Parathyroid Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Hyperplasia                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   | 1 |   |   |   |
| Pituitary Gland              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |
| Pars Distalis, Hyperplasia   |   |   |   |   | 3 | 2 |   |   |   |   |   | 3 | 2 | 1 |   |   |   |   |   |   | 2 | 4 |   |   |   |   |   |
| Thyroid Gland                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + |   |
| C-cell, Hyperplasia          |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |
| Follicular Cell, Hypertrophy |   |   |   | 2 |   | 1 | 3 |   | 2 |   |   | 1 | 1 |   | 3 | 2 |   |   |   |   | 2 | 1 |   |   | 3 | 1 | 2 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically  
1-4 .. Lesion qualified as:  
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Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>75 mg/kg | DAY ON TEST      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |       | ANIMAL ID | females<br>(cont...) |
|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------|-----------|----------------------|
|  | 0<br>7<br>1<br>9 | 0<br>7<br>2<br>9 | 0<br>7<br>1<br>9 | 0<br>7<br>3<br>0 | 0<br>6<br>2<br>2 | 0<br>6<br>2<br>1 | 0<br>5<br>3<br>1 | 0<br>6<br>2<br>2 | 0<br>6<br>3<br>3 | 0<br>7<br>1<br>3 | 0<br>6<br>6<br>5 | 0<br>3<br>7<br>9 | 0<br>6<br>6<br>5 | 0<br>7<br>3<br>0 | 0<br>7<br>2<br>9 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>2<br>9 | 0<br>7<br>0<br>5 | 0<br>3<br>1<br>3 | 0<br>7<br>1<br>9 | 0<br>7<br>2<br>9 | 0<br>5<br>0<br>9 |       |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00251 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00252 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00253 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00254 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00255 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00256 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00257 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00258 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00259 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00260 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00261 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00262 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00263 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00264 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00265 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00266 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00267 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00268 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00269 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00270 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00271 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00272 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00273 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00274 |           |                      |
|  | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00275 |           |                      |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Clitoral Gland Cyst                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Ovary Atrophy                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Ovary Cyst                               |   | 2 |   |   |   |   |   |   |   |   |   |   | 3 |   | 3 |   | 2 |   |   |   |   |   |   |   |  |
| Ovary Inflammation, Chronic Active       |   |   |   | 1 | 3 |   |   |   |   | 1 |   |   |   |   | 4 |   | 3 | 2 | 3 |   |   |   | 3 |   |  |
| Uterus Dilatation                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |  |
| Uterus Inflammation, Acute               |   |   |   |   | 2 |   |   |   | 1 |   |   |   | 2 |   |   |   | 4 |   |   |   |   |   |   |   |  |
| Uterus Endometrium, Hyperplasia, Cystic  | 3 | 3 |   | 1 | 1 |   | 1 | 1 |   | 2 | 1 |   |   |   | 2 |   |   |   |   | 2 |   | 1 | 2 | 2 |  |
| Uterus Endometrium, Metaplasia, Squamous |   |   |   | 1 | 1 |   |   |   | 2 |   |   |   | 3 |   |   |   | 3 |   |   |   |   | 2 |   |   |  |
| Vagina                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |  |

**HEMATOPOIETIC SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Bone Marrow Atrophy                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |  |
| Bone Marrow Hyperplasia                              |   |   |   |   | 2 |   |   | 2 | 2 | 1 | 2 |   | 3 |   |   |   | 2 |   |   |   | 1 | 3 | 3 |  |
| Lymph Node Iliac, Hyperplasia, Lymphoid              |   |   | + |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   | + |   |   |  |
| Lymph Node Inguinal, Hemorrhage                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |  |
| Lymph Node Lumbar, Hemorrhage                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymph Node Lumbar, Hyperplasia, Lymphoid             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Lymph Node Lumbar, Infiltration Cellular, Histiocyte |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

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

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>75 mg/kg | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |      |      |      |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|------|------|
|  | 0719        | 0729 | 0779 | 0770 | 0622 | 0661 | 0551 | 0662 | 0663 | 0773 | 0665 | 0369 | 0665 | 0770 | 0779 | 0770 | 0770 | 0770 | 0770 | 0373 |                      | 0779 | 0759 | 0599 |      |
|  | ANIMAL ID   |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |      |      |      |
|  | 00251       | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021                 | 0022 | 0023 | 0024 | 0025 |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lymph Node, Mandibular  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + |
| Lymph Node, Mesenteric  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Spleen<br>Hematopoietic Cell Proliferation                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   | 2 |   | 3 | 2 | 2 |   |   | 3 |   | 1 | 3 |   | 3 | 1 |   | 2 | 3 | 2 | 3 | 2 |   |   | 3 | 2 | 2 |
| Thymus<br>Atrophy<br>Inflammation<br>Epithelial Cell, Hyperplasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   | 3 | 2 |   | 3 | 2 | 1 | 2 |   | 1 |   |   |   |   | 2 | 3 | 3 | 1 |   | 1 | 3 | 4 | 2 |   |   |
|   |   |   |   |   | 2 |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

INTEGUMENTARY SYSTEM

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland<br>Hyperplasia<br>Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |
| Skin<br>Cyst Epithelial Inclusion            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|  |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

MUSCULOSKELETAL SYSTEM

|                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bone<br>Fibrous Osteodystrophy | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

NERVOUS SYSTEM

|                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain<br>Gliosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

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First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                      |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>75 mg/kg | DAY ON TEST | 0719  | 0719  | 0719  | 0719  | 0661  | 0661  | 0551  | 0662  | 0663  | 0763  | 0663  | 0365  | 0677  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0377  | 0777  | 0777  | 0579  | 0379  | 0179  | 0279  | 0379  | 0579  | 0779  | females<br>(cont...) |
|  | ANIMAL ID   | 00251 | 00252 | 00253 | 00254 | 00255 | 00256 | 00257 | 00258 | 00259 | 00260 | 00261 | 00262 | 00263 | 00264 | 00265 | 00266 | 00267 | 00268 | 00269 | 00270 | 00271 | 00272 | 00273 | 00274 | 00275 | 00276 | 00277 | 00278 | 00279 |                      |
|  |             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                      |

Inflammation  
Meninges, Pigmentation, Lipofuscin

1

Peripheral Nerve

+

Spinal Cord  
Hemorrhage  
Necrosis

+

2

2

RESPIRATORY SYSTEM

Lung  
 Atelectasis +  
 Foreign Body X  
 Inflammation, Chronic 3 3 2 3 3 2 2 1 1 1 2 1 3 3 1 2 2  
 Alveolus, Infiltration Cellular, Histiocyte 1 1 2 1 1  
 Bronchiole, Hyperplasia  
 Mediastinum, Inflammation 3  
 Pleura, Inflammation, Chronic Active

Nose  
 Foreign Body X X  
 Inflammation, Chronic Active 2 1  
 Glands, Olfactory Epithelium, Hyperplasia 1

Trachea  
 Epithelium, Necrosis 2

SPECIAL SENSES SYSTEM

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
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 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
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Experiment Number: 20006 - 03

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Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

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Lab: BAT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>75 mg/kg | DAY ON TEST | 0729  | 0645  | 0730  | 0761  | 0667  | 0733  | 0645  | 0649  | 0661  | 0638  | 0744  | 0644  | 0773  | 0666  | 0746  | 0776  | 0636  | 0733  | 0713  | 0773  | 0773  | * TOTALS |
|  | ANIMAL ID   | 00276 | 00277 | 00278 | 00279 | 00280 | 00281 | 00282 | 00283 | 00284 | 00285 | 00286 | 00287 | 00288 | 00289 | 00290 | 00291 | 00292 | 00293 | 00294 | 00295 | 00296 |          |
|  |             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |          |

ALIMENTARY SYSTEM

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Esophagus Inflammation      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2   | 2.0 |
| Intestine Large, Cecum      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Intestine Large, Colon      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Intestine Large, Rectum     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Intestine Small, Duodenum   | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |     |     |
| Intestine Small, Ileum      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | 47 |     |     |
| Intestine Small, Jejunum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | 46 |     |     |
| Liver                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |
| Basophilic Focus            |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 6  |     |     |
| Cholangiofibrosis           |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |     |
| Clear Cell Focus            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   | 7  |     |     |
| Eosinophilic Focus          |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   |   |   | 4  |     |     |
| Mixed Cell Focus            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |     |     |
| Necrosis                    |   |   |   |   |   |   |   |   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 3.5 |     |
| Thrombosis                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   | 1  | 2.0 |     |
| Bile Duct, Cyst             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   | 1  | 2.0 |     |
| Bile Duct, Cyst, Multiple   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   | 1  | 2.0 |     |
| Centrilobular, Degeneration |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 3.0 |     |
| Mesentery                   | + |   |   |   |   |   |   |   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  |     |     |

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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|----|-----|
|  | 0729        | 0645  | 0730  | 0730  | 0661  | 0660  | 0773  | 0666  | 0449  | 0661  | 0338  | 0448  | 0442  | 0773  | 0666  | 0447  | 0777  | 0666  | 0333  | 0771  |          | 0777  | 0773  |       |       |    |     |
| ANIMAL ID  | 00276       | 00077 | 00008 | 00009 | 00000 | 00001 | 00002 | 00003 | 00004 | 00005 | 00006 | 00007 | 00008 | 00009 | 00010 | 00011 | 00012 | 00013 | 00014 | 00015 | 00016    | 00017 | 00018 | 00019 | 00020 |    |     |
| Artery, Inflammation, Chronic Active             | 3           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1  | 3.0 |
| Oral Mucosa                                      | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 50 |     |
| Pancreas   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 49 |     |
| Acinus, Hyperplasia                              |             |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       | 1        |       |       |       |       | 3  | 1.3 |
| Artery, Inflammation, Chronic Active             |             |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       | 1     |       |       |       |          |       |       |       |       | 4  | 1.5 |
| Salivary Glands                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 49 |     |
| Stomach, Forestomach                             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 50 |     |
| Hyperplasia                                      | 3           |       |       |       |       |       |       | 4     |       |       |       |       |       |       |       |       | 3     |       |       |       |          |       |       |       |       | 5  | 2.4 |
| Pigmentation, Melanin                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |          |       |       |       |       | 1  | 2.0 |
| Stomach, Glandular                               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 49 |     |
| Tongue   | +           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1  |     |
| Inflammation                                     | 3           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1  | 3.0 |
| Tooth  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1  |     |

**CARDIOVASCULAR SYSTEM**

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Blood Vessel                 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50  |     |
| Inflammation, Chronic Active | 1 |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3   | 1.3 |
| Heart                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50  |     |
| Cardiomyopathy               | 1 |   |   | 2 | 2 |   | 2 | 1 | 1 | 1 |   | 1 |   |   | 1 | 2 |   | 3 | 2 | 1 |   |   | 2 | 1 | 24 | 1.7 |     |
| Atrium, Thrombosis           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 |   |   |   |   |   |   |   |    | 1   | 4.0 |
| Epicardium, Inflammation     |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |    | 3   | 2.3 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked





Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>75 mg/kg | DAY ON TEST |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | * TOTALS |          |          |          |       |
|--|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------|
|  | 07<br>29    | 06<br>45 | 07<br>30 | 07<br>31 | 06<br>06 | 06<br>07 | 06<br>08 | 06<br>09 | 04<br>10 | 06<br>11 | 03<br>12 | 04<br>13 | 07<br>14 | 06<br>15 | 06<br>16 | 04<br>17 | 07<br>18 | 06<br>19 | 03<br>20 | 07<br>21 |          | 01<br>22 | 07<br>23 | 07<br>24 |       |
| ANIMAL ID  | 00276       | 00077    | 00078    | 00079    | 00080    | 00081    | 00082    | 00083    | 00084    | 00085    | 00086    | 00087    | 00088    | 00089    | 00090    | 00091    | 00092    | 00093    | 00094    | 00095    | 00096    | 00097    | 00098    | 00099    | 00100 |

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Clitoral Gland Cyst | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 2 | 2.5 |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Ovary Atrophy                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 23 | 2.0 |
| Ovary Cyst                         |   | 2 |   | 2 |   |   |   | 3 |   |   | 3 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 13 | 2.4 |
| Ovary Inflammation, Chronic Active |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  | 3.0 |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Uterus Dilatation                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 9   | 3.4 |
| Uterus Inflammation, Acute               | 3 |   | 3 |   | 3 | 4 |   | 2 |   | 2 |   |   |   |   |   |   |   | 2 |   | 3 |   | 1 |   | 1 |   | 12 | 2.1 |     |
| Uterus Endometrium, Hyperplasia, Cystic  |   |   | 1 |   |   |   |   |   |   | 1 | 1 | 2 | 1 | 2 | 2 |   | 1 | 1 | 2 | 2 | 1 | 3 | 1 | 3 |   | 28 | 1.6 |     |
| Uterus Endometrium, Metaplasia, Squamous | 3 |   | 3 | 2 | 2 | 2 | 3 |   |   |   |   | 2 | 1 | 1 |   |   |   |   | 3 |   | 2 |   | 3 |   |   | 18 | 2.2 |     |

|        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|
| Vagina |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |
|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|

HEMATOPOIETIC SYSTEM

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Bone Marrow Atrophy     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1   | 3.0 |
| Bone Marrow Hyperplasia | 2 |   | 1 |   | 1 | 2 |   | 2 |   |   | 1 |   |   |   |   | 2 |   | 2 |   |   | 3 |   |   |   |   | 20 | 2.0 |     |

|  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |   |   |     |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|---|---|-----|
| Lymph Node Iliac, Hyperplasia, Lymphoid              | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  | 6 | 1 | 2.0 |
| Lymph Node Inguinal, Hemorrhage                      |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |   | 1 | 3.0 |
| Lymph Node Lumbar, Hemorrhage                        |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 |  |  |  |  |   | 1 | 3.0 |
| Lymph Node Lumbar, Hyperplasia, Lymphoid             | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |   | 1 | 3.0 |
| Lymph Node Lumbar, Infiltration Cellular, Histiocyte |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |   | 1 | 2.0 |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically  
1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
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Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>75 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |        |        |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|--------|--------|-------|
|  | 079         | 0645  | 0730  | 0730  | 0617  | 0667  | 0733  | 0645  | 0492  | 0611  | 0388  | 0741  | 0442  | 0730  | 0669  | 0466  | 0703  | 0660  | 0364  | 0735  |          |       | 0173  | 0773  | 0733   |        |       |
| ANIMAL ID  | 00276       | 00277 | 00278 | 00279 | 00280 | 00281 | 00282 | 00283 | 00284 | 00285 | 00286 | 00287 | 00288 | 00289 | 00290 | 00291 | 00292 | 00293 | 00294 | 00295 | 00296    | 00297 | 00298 | 00299 |        |        |       |
| Lymph Node, Mandibular                           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 49     |        |       |
| Lymph Node, Mesenteric                           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50     |        |       |
| Spleen   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50     |        |       |
| Hematopoietic Cell Proliferation                 | 2           |       |       |       | 3     | 3     | 2     | 3     | 4     | 2     |       |       |       | 2     |       | 3     |       | 2     | 1     | 3     | 3        | 2     |       | 2     | 32 2.4 |        |       |
| Thymus   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | 50     |        |       |
| Atrophy  | 3           |       | 1     |       | 4     |       | 2     | 3     | 4     | 2     |       |       |       | 4     | 1     | 3     |       |       | 1     | 3     |          | 2     | 2     | 3     | 1      | 31 2.3 |       |
| Inflammation                                     |             |       |       |       |       |       |       |       |       |       |       |       |       | 3     |       |       |       |       |       |       |          |       |       |       |        | 1 3.0  |       |
| Epithelial Cell, Hyperplasia                     |             |       |       |       |       |       |       |       |       |       | 3     |       |       |       |       |       |       | 4     |       |       |          |       |       |       |        | 4 3.3  |       |
| <b>INTEGUMENTARY SYSTEM</b>                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        |        |       |
| Mammary Gland                                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +      | 50     |       |
| Hyperplasia                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 3 1.0  |       |
| Inflammation                                     | 3           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 1 3.0  |       |
| Skin   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +      | 50     |       |
| Cyst Epithelial Inclusion                        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 1      |       |
| <b>MUSCULOSKELETAL SYSTEM</b>                    |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        |        |       |
| Bone   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +      | 50     |       |
| Fibrous Osteodystrophy                           |             |       |       |       | 3     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 1 3.0  |       |
| <b>NERVOUS SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        |        |       |
| Brain  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +      | 50     |       |
| Gliosis  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |        | 2      | 1 2.0 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>150 mg/kg | DAY ON TEST | 0611 | 0446 | 0661 | 0773 | 0773 | 0773 | 0554 | 0663 | 0773 | 0773 | 0332 | 0332 | 0668 | 0668 | 0772 | 0559 | 0772 | 0660 | 0664 | 0552 | 0664 | 0663 | 0339 | 0772 | 0339 | females<br>(cont...) |
|   | ANIMAL ID   | 0030 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 |                      |
|   |             | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    |                      |

ALIMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Cecum                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum<br>Metaplasia           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 |
| Intestine Small, Duodenum<br>Lymphatic, Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 |
| Intestine Small, Ileum                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum<br>Lymphatic, Ectasia  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Basophilic Focus                                | X |   | X |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | X |   | X |
| Clear Cell Focus                                |   |   |   |   | X | X |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |
| Eosinophilic Focus                              | X |   |   | X |   |   |   |   | X |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |
| Hepatodiaphragmatic Nodule                      |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mixed Cell Focus                                | X |   | X |   |   |   | X |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Bile Duct, Cyst                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 |   | 2 |   |   |   |   |   |   |   |
| Bile Duct, Cyst, Multiple                       |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Mesentery                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |

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

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X .. Lesion present

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>150 mg/kg | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|
|   | 0611        | 0446 | 0677 | 0777 | 0777 | 0575 | 0667 | 0775 | 0777 | 0773 | 0366 | 0667 | 0775 | 0776 | 0667 | 0665 | 0566 | 0666 | 0663 | 0777 |                      |
| ANIMAL ID   | 0030        | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 |                      |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Oral Mucosa<br>Hyperplasia, Squamous   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pancreas<br>Artery, Inflammation, Chronic Active                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Salivary Glands  | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach<br>Hyperplasia  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Glandular<br>Erosion<br>Epithelium, Hyperplasia<br>Epithelium, Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

CARDIOVASCULAR SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel<br>Degeneration, Focal<br>Inflammation, Chronic Active<br>Thrombosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Heart<br>Cardiomyopathy<br>Pericardium, Inflammation                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

ENDOCRINE SYSTEM

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>150 mg/kg                      | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  | females<br>(cont...) |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|----------------------|
|  | 0611        | 0446 | 0677 | 0777 | 0777 | 0566 | 0677 | 0577 | 0677 | 0336 | 0667 | 0775 | 0882 | 0887 | 0599 | 0776 | 0668 | 0566 | 0665 | 0666 | 0339 | 0773 | 0667 |      |  |                      |
| ANIMAL ID  | 0030        | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 | 0033 |  |                      |
| Hematopoietic Cell Proliferation                                       | 3           | 2    | 1    | 3    |      | 2    | 3    | 3    | 2    | 2    |      | 3    | 2    | 3    | 4    | 2    | 2    | 3    | 2    |      | 3    | 2    | 3    | 2    |  |                      |
| Thymus Atrophy   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |  |                      |
| Inflammation   | 2           | 2    | 2    |      | 3    | 3    | 3    | 3    | 2    | 2    |      | 1    | 1    |      | 3    | 3    | 3    | 3    | 1    | 2    | 2    |      | 1    | 2    |  |                      |
| Epithelial Cell, Hyperplasia   |             |      |      |      |      |      |      |      | 2    | 2    |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |  |                      |
| <b>INTEGUMENTARY SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |                      |
| Mammary Gland Hyperplasia  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |  |                      |
| Skin   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |  |                      |
| <b>MUSCULOSKELETAL SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |                      |
| Bone Fibrous Osteodystrophy  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |  |                      |
| Skeletal Muscle Degeneration   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | +    |  |                      |
| <b>NERVOUS SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |                      |
| Brain  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |  |                      |
| <b>RESPIRATORY SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |                      |
| Lung Inflammation, Chronic Alveolus, Infiltration Cellular, Histiocyte | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |  |                      |
|  | 3           | 2    | 2    | 3    | 3    | 3    | 3    |      | 3    | 2    | 3    | 1    | 1    | 2    | 2    | 3    | 1    | 3    | 3    | 3    | 1    | 2    | 2    |      |  |                      |
|  |             |      |      |      |      |      |      |      |      |      |      | 1    |      |      |      |      | 1    |      |      |      |      |      |      | 1    |  |                      |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
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1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
2) Mild 4) Marked

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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

Indole-3-carbinol  
CAS Number: 700-06-1

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First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| DAY ON TEST                                  |                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|--|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>FEMALE</b> |                  | 6 | 4 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 5 | 7 | 7 | 3 | 6 | 6 | 7 | 5 | 7 | 6 | 6 | 5 | 6 | 6 | 3 | 7 |   |   |
|  | <b>150 mg/kg</b> | 1 | 4 | 1 | 3 | 3 | 3 | 4 | 3 | 3 | 1 | 3 | 2 | 2 | 8 | 8 | 2 | 9 | 2 | 0 | 4 | 2 | 4 | 3 | 9 | 2 |   |   |
| ANIMAL ID                                    |                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  |                  | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
|  |                  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
|  |                  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |   |   |

females  
(cont...)

Bronchiole, Hyperplasia

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nose   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Foreign Body                                 |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Inflammation, Chronic Active                 |   |   |   | 1 |   |   |   |   |   |   |   |   | 3 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Olfactory Epithelium, Atrophy                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |
| Olfactory Epithelium, Degeneration           |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Respiratory Epithelium, Hyperplasia          |   |   |   |   |   |   |   |   |   |   |   | 3 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Respiratory Epithelium, Metaplasia, Squamous |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trachea | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**SPECIAL SENSES SYSTEM**

|                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Inflammation       |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Harderian Gland    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia, Focal |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

**URINARY SYSTEM**

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kidney          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Nephropathy     |   |   | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 1 | 3 | 2 | 2 | 1 |   | 2 | 2 | 3 | 1 | 2 | 3 |   |   | 3 | 2 | 3 |   |
| Urinary Bladder | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Hyperplasia     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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 I .. Insufficient tissue  
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|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|   | 0730        | 0733  | 0730  | 0732  | 0736  | 0736  | 0736  | 0737  | 0737  | 0735  | 0737  | 0736  | 0731  | 0736  | 0737  | 0737  | 0736  | 0737  | 0731  | 0736  | 0733  | 0736  | 0733  | 0737  |          |
| ANIMAL ID   | 00326       | 00337 | 00338 | 00339 | 00330 | 00330 | 00330 | 00330 | 00330 | 00330 | 00330 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 |          |
|   | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |          |
|   | 7           | 7     | 7     | 7     | 6     | 6     | 6     | 7     | 7     | 5     | 7     | 7     | 6     | 1     | 6     | 7     | 7     | 6     | 7     | 1     | 6     | 3     | 6     | 3     | 7        |
|   | 3           | 3     | 3     | 2     | 6     | 4     | 4     | 2     | 2     | 9     | 3     | 3     | 8     | 8     | 3     | 1     | 3     | 4     | 3     | 6     | 4     | 0     | 1     | 9     | 3        |
|   | 0           | 0     | 0     | 9     | 4     | 6     | 6     | 9     | 9     | 0     | 0     | 8     | 9     | 1     | 9     | 0     | 3     | 0     | 0     | 6     | 7     | 4     | 7     | 0     |          |

**ALIMENTARY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |        |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|--------|
| Esophagus                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |        |
| Intestine Large, Cecum                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |        |
| Intestine Large, Colon                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |        |
| Intestine Large, Rectum<br>Metaplasia           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |        |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0 |        |
| Intestine Small, Duodenum<br>Lymphatic, Ectasia | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | A | +     | 48     |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       | 16 1.2 |
| Intestine Small, Ileum                          | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | +     | 48     |
| Intestine Small, Jejunum<br>Lymphatic, Ectasia  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | A | +     | 48     |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       | 30 1.7 |
| Liver   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |        |
| Angiectasis                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 2.0 |        |
| Basophilic Focus                                |   |   |   |   |   |   |   | X | X |   |   |   | X | X |   |   |   |   |   |   |   |   |   |   | 11    |        |
| Clear Cell Focus                                | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4     |        |
| Eosinophilic Focus                              |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5     |        |
| Hepatodiaphragmatic Nodule                      |   |   |   |   |   |   | X |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | 3     |        |
| Mixed Cell Focus                                |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 5     |        |
| Bile Duct, Cyst                                 | 2 |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   | 4 2.5 |        |
| Bile Duct, Cyst, Multiple                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 2.0 |        |
| Mesentery                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2     |        |

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|   | 0730        | 0730  | 0730  | 0732  | 0736  | 0736  | 0736  | 0737  | 0737  | 0735  | 0737  | 0736  | 0731  | 0736  | 0737  | 0737  | 0736  | 0737  | 0731  | 0736  | 0733  | 0736  | 0733  | 0737  |          |
| ANIMAL ID   | 00326       | 00337 | 00338 | 00339 | 00330 | 00330 | 00330 | 00330 | 00330 | 00330 | 00330 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 |          |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Oral Mucosa<br>Hyperplasia, Squamous             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 1.0 |
| Pancreas<br>Artery, Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | 49 | 3 | 2.7 |
| Salivary Glands                                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | 48 |   |     |
| Stomach, Forestomach<br>Hyperplasia              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 7 | 2.1 |
| Stomach, Glandular<br>Erosion                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 3.0 |
| Epithelium, Hyperplasia                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 | 2.0 |
| Epithelium, Mineralization                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 | 1.0 |

CARDIOVASCULAR SYSTEM

|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Blood Vessel<br>Degeneration, Focal | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1   | 2.0 |
| Inflammation, Chronic Active        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 4   | 2.5 |
| Thrombosis                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1   | 3.0 |
| Heart<br>Cardiomyopathy             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 24  | 1.8 |
| Pericardium, Inflammation           | 1 | 2 |   | 3 |   |   | 2 | 3 | 3 |   | 2 | 1 | 2 |   | 2 |   |   |   |   |   |   | 1 | 1 |   | 2  | 2.5 |     |

ENDOCRINE SYSTEM

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |  |  |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |  |  |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--|

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X .. Lesion present

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CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>150 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |        |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|--------|
|   | 0730        | 0733  | 0730  | 0732  | 0736  | 0736  | 0736  | 0737  | 0737  | 0735  | 0737  | 0736  | 0731  | 0736  | 0737  | 0737  | 0736  | 0737  | 0731  | 0736  |          | 0733  | 0736  | 0733   |
| ANIMAL ID   | 00326       | 00337 | 00338 | 00339 | 00330 | 00330 | 00330 | 00330 | 00330 | 00330 | 00330 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333    | 00333 | 00333 | 00333  |
| Degeneration, Cystic Hyperplasia                  | 1           |       |       |       |       |       |       |       |       |       |       | 3     |       |       | 2     |       | 4     |       |       |       |          | 2     |       |        |
| Necrosis  |             |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |          |       |       |        |
| Thrombosis  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 3     |       |        |
| Adrenal Medulla Hyperplasia                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50     |
| Islets, Pancreatic                                | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50     |
| Parathyroid Gland                                 | +           | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | +     | +     | +     | +        | +     | +     | 46     |
| Pituitary Gland Pars Distalis, Hyperplasia        | 4           |       |       |       |       | 3     | 3     |       |       |       |       |       | 4     | 2     |       | 2     |       |       | 4     |       | 4        |       |       | 18 3.3 |
| Thyroid Gland C-cell, Hyperplasia                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | A     | 48     |
| Follicular Cell, Hyperplasia                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       | 6 2.3  |
| Follicular Cell, Hypertrophy                      | 3           | 1     | 1     | 2     | 1     | 1     | 2     | 2     | 2     |       |       | 3     | 1     | 2     |       |       | 1     | 1     |       |       |          |       | 1     | 24 1.7 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |
|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Clitoral Gland Cyst | + | + | + | 3 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |        |
| Ovary Atrophy       | 2 | 3 | 1 |   | 1 | 3 | 2 | 3 | 3 | 2 | 2 |   | 1 | + | 3 | 3 | 3 |   | 2 | + | + | 2 | 2 | 2  | 50     |
|                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 37 2.0 |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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

Indole-3-carbinol  
CAS Number: 700-06-1

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First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>150 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS      |               |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|---------------|
|   | 0730        | 0730  | 0730  | 0732  | 0764  | 0766  | 0766  | 0777  | 0777  | 0755  | 0777  | 0766  | 0711  | 0766  | 0777  | 0777  | 0766  | 0777  | 0711  | 0766  | 0733  | 0766  | 0733  | 0777  |               |               |
| ANIMAL ID   | 00326       | 00337 | 00338 | 00339 | 00330 | 00331 | 00332 | 00333 | 00334 | 00335 | 00336 | 00337 | 00338 | 00339 | 00340 | 00341 | 00342 | 00343 | 00344 | 00345 | 00346 | 00347 | 00348 | 00349 |               |               |
| Hematopoietic Cell Proliferation                  |             |       | 3     |       | 1     | 1     | 2     | 2     | 2     | 3     | 2     | 2     | 3     | 2     | 1     | 1     | 3     |       |       | 3     | 3     |       | 2     | 2     | <b>40 2.3</b> |               |
| Thymus Atrophy                                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | M     | <b>49</b>     |               |
| Inflammation                                      | 1           | 2     |       | 2     |       | 2     | 2     | 1     |       | 3     | 4     |       | 1     |       | 2     |       |       | 2     | 3     |       |       | 3     | 2     |       | <b>34 2.2</b> |               |
| Epithelial Cell, Hyperplasia                      |             |       |       |       |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       | <b>3 2.0</b>  |               |
| <b>INTEGUMENTARY SYSTEM</b>                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |               |               |
| Mammary Gland Hyperplasia                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | <b>50</b>     |               |
|   |             |       |       | 1     |       |       |       |       |       |       |       | 2     |       |       |       |       | 1     |       |       |       |       |       |       |       | <b>7 1.4</b>  |               |
| Skin  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | <b>50</b>     |               |
| <b>MUSCULOSKELETAL SYSTEM</b>                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |               |               |
| Bone Fibrous Osteodystrophy                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | <b>50</b>     |               |
|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | <b>1 3.0</b>  |               |
| Skeletal Muscle Degeneration                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | <b>1</b>      |               |
|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | <b>1 1.0</b>  |               |
| <b>NERVOUS SYSTEM</b>                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |               |               |
| Brain   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | <b>50</b>     |               |
| <b>RESPIRATORY SYSTEM</b>                         |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |               |               |
| Lung Inflammation, Chronic                        | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | <b>50</b>     |               |
| Alveolus, Infiltration Cellular, Histiocyte       | 2           |       | 3     | 3     |       | 2     | 2     | 2     | 3     |       | 3     |       | 2     | 1     | 3     | 3     |       | 2     |       |       | 3     |       |       | 1     | 2             | <b>38 2.3</b> |
|   |             |       | 1     |       | 1     |       |       |       |       | 2     |       | 2     | 1     | 2     |       |       |       |       | 3     |       |       |       | 2     |       |               | <b>11 1.5</b> |

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 M .. Missing tissue  
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|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
|   | 0730        | 0733  | 0730  | 0732  | 0736  | 0736  | 0736  | 0737  | 0737  | 0735  | 0737  | 0736  | 0731  | 0736  | 0737  | 0737  | 0736  | 0737  | 0731  | 0736  | 0733  | 0736  | 0733  | 0737  |          |       |        |
| ANIMAL ID   | 00326       | 00337 | 00330 | 00332 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 |          |       |        |
| Bronchiole, Hyperplasia                           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     | 1 1.0    |       |        |
| Nose  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | 49       |       |        |
| Angiectasis                                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2        | 1 2.0 |        |
| Foreign Body                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |          | 3     |        |
| Inflammation, Chronic Active                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     |          | 5 1.6 |        |
| Olfactory Epithelium, Atrophy                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        | 2 1.0 |        |
| Olfactory Epithelium, Degeneration                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1 1.0 |        |
| Respiratory Epithelium, Hyperplasia               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        | 3 2.0 |        |
| Respiratory Epithelium, Metaplasia, Squamous      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        | 1 1.0 |        |
| Trachea   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |       |        |
| <b>SPECIAL SENSES SYSTEM</b>                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |        |
| Eye   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |       |        |
| Inflammation                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1 3.0 |        |
| Harderian Gland                                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |       |        |
| Hyperplasia, Focal                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        | 1 1.0 |        |
| <b>URINARY SYSTEM</b>                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |        |
| Kidney  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |       |        |
| Nephropathy                                       | 1           | 1     | 2     | 2     | 2     | 2     | 3     | 3     | 3     | 2     | 2     | 1     | 2     |       | 2     | 2     | 2     | 2     | 3     |       |       |       |       |       | 2        | 1     | 42 2.2 |
| Urinary Bladder                                   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |       |        |
| Hyperplasia                                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 3     | 1 3.0  |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|-------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>300 mg/kg | DAY ON TEST | 0622  | 0175  | 0770  | 0335  | 0779  | 0770  | 0660  | 0779  | 0770  | 0176  | 0779  | 0770  | 0466  | 0677  | 0779  | 0770  | 0661  | 0668  | 0775  | 0779  | 0770  | 0773  | 0779  | 0770  | females<br>(cont...) |       |
|   | ANIMAL ID   | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 | 00360 | 00361 | 00362 | 00363 | 00364 | 00365 | 00366 | 00367 | 00368 | 00369 | 00370 | 00371 | 00372 | 00373 | 00374 |                      | 00375 |
|   |             | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                      | 0     |

ALIMENTARY SYSTEM

|                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Esophagus                  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Perforation                |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Intestine Large, Cecum     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Colon     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Large, Rectum    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Duodenum  | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + |
| Lymphatic, Ectasia         | 2 | 4 | 1 | 1 | 1 | 2 |   |   | 1 | 1 | 3 |   | 1 |   | 2 |   | 1 | 2 | 2 | 3 | 2 |   | 1 | 2 | 1 |
| Intestine Small, Ileum     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Intestine Small, Jejunum   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Lymphatic, Ectasia         | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 2 | 3 | 2 | 2 |
| Liver                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Angiectasis                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Basophilic Focus           |   |   | X | X |   | X |   | X |   |   |   |   |   |   | X | X | X | X | X |   | X | X |   |   |   |
| Clear Cell Focus           |   |   |   | X |   |   | X |   | X |   |   |   | X |   |   | X | X | X |   |   | X |   | X | X | X |
| Eosinophilic Focus         |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   | X |   |   |   |   | X |   |   |   |   |
| Hepatodiaphragmatic Nodule |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   |   |   |   |
| Inflammation, Chronic      |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Mixed Cell Focus           |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   | X |   |   |   |   |
| Bile Duct, Cyst            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |
| Bile Duct, Cyst, Multiple  |   |   |   |   |   |   |   | 2 |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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|---|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|------|------|
|   | 0622        | 0759 | 0723      | 0735 | 0772 | 0773 | 0766 | 0776 | 0777 | 0713 | 0773 | 0777 | 0744 | 0667 | 0777 | 0777 | 0777 | 0666 | 0666 | 0777 | 0777 | 0777 |                      | 0777 | 0777 | 0777 | 0777 |
| Adrenal Cortex                                    | +           | +    | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    | +    | +    | +    | +    |
| Degeneration, Cystic                              |             |      | 2         |      | 2    |      | 3    |      |      |      |      | 3    | 3    |      |      | 2    |      |      |      |      |      |      |                      |      | 3    | 1    | 2    |
| Degeneration, Fatty                               |             |      |           |      |      |      |      |      |      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |                      |      |      |      |      |
| Hyperplasia                                       | 1           |      | 1         |      |      |      | 2    |      |      | 2    |      |      |      | 1    |      | 2    |      |      |      |      |      |      |                      | 4    | 2    | 1    |      |
| Inflammation                                      |             |      |           |      | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |      |      |      |
| Necrosis  |             |      |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3                    |      |      |      |      |
| Adrenal Medulla                                   | +           | +    | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    | +    | +    | +    | +    |
| Hyperplasia                                       |             |      | 1         | 4    |      | 1    | 4    |      | 1    |      |      | 1    |      |      |      | 2    | 1    |      |      |      |      |      |                      |      |      |      | 1    |
| Islets, Pancreatic                                | +           | +    | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    | +    | +    | +    | +    |
| Parathyroid Gland                                 | +           | +    | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +                    | +    | M    | +    | +    |
| Pituitary Gland                                   | +           | +    | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M                    | +    | +    | +    | +    |
| Pars Distalis, Hyperplasia                        |             |      | 3         |      |      | 1    |      | 1    | 2    | 3    |      | 2    |      |      |      | 3    | 1    |      |      |      |      |      |                      |      | 1    |      |      |
| Thyroid Gland                                     | +           | +    | +         | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | +                    | +    | +    | +    | +    |
| C-cell, Hyperplasia                               |             |      | 4         |      |      |      | 4    | 1    |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |                      |      |      |      |      |
| Follicular Cell, Hyperplasia                      |             |      |           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |      |      |      |      |
| Follicular Cell, Hypertrophy                      |             |      | 1         |      | 3    |      |      | 1    | 2    |      | 2    | 2    |      |      | 3    | 2    | 3    | 2    | 1    |      |      | 2    | 1                    | 3    | 1    | 2    |      |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Cyst           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS FEMALE |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | ANIMAL ID | females (cont...) |
|-------------|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------------------|
|             | 0622                              | 0617  | 0607  | 0607  | 0603  | 0607  | 0607  | 0606  | 0607  | 0607  | 0601  | 0607  | 0607  | 0604  | 0606  | 0607  | 0607  | 0607  | 0606  | 0606  | 0607  | 0607  | 0607  | 0607  |           |                   |
| 300 mg/kg   | 00351                             | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333     |                   |

|                                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |  |   |   |
|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|--|---|---|
| Inflammation                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |  | 3 |   |
| Ovary                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |  |   |   |
| Angiectasis                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |  | 3 |   |
| Atrophy                           | 1 | 3 |   |   | 1 | 3 |   |   | 1 |   | 3 |   |   | 2 |  |   | 1 | 3 | 1 | 3 |   | 1 | 2 |  | 2 | 3 |
| Cyst                              |   |   | 2 |   |   | 3 | 3 |   | 1 | 2 |   |   | 3 |   |  | 1 | 2 | 3 |   |   | 4 |   |   |  |   | 3 |
| Inflammation, Acute               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |  | 2 |   |
| Inflammation, Chronic             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |  | 2 |   |
| Inflammation, Chronic Active      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |  |   |   |
| Uterus                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |  |   |   |
| Dilatation                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |  | 2 |   |
| Inflammation, Acute               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |  | 1 |   |
| Thrombosis                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |  | 3 |   |
| Endometrium, Hyperplasia, Cystic  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |  | 2 |   |
| Endometrium, Metaplasia, Squamous |   |   |   | 1 |   |   |   | 2 |   |   |   | 2 | 1 |   |  | 2 | 3 | 3 | 1 |   |   | 2 |   |  | 1 |   |
| Vagina                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |  | + |   |

HEMATOPOIETIC SYSTEM

|  |   |   |  |  |   |  |  |   |   |  |   |  |  |  |  |   |   |  |  |   |  |   |  |  |   |
|--|---|---|--|--|---|--|--|---|---|--|---|--|--|--|--|---|---|--|--|---|--|---|--|--|---|
| Bone Marrow                              |   |   |  |  |   |  |  |   |   |  |   |  |  |  |  |   |   |  |  |   |  |   |  |  |   |
| Hyperplasia                              | 3 | 1 |  |  | 3 |  |  | 2 | 2 |  | 3 |  |  |  |  | 3 | 2 |  |  | 3 |  | 1 |  |  | 2 |
| Lymph Node                               |   |   |  |  |   |  |  |   |   |  |   |  |  |  |  |   |   |  |  |   |  |   |  |  |   |
| Axillary, Hyperplasia, Lymphoid          |   |   |  |  |   |  |  |   |   |  |   |  |  |  |  |   |   |  |  |   |  |   |  |  | + |
| Iliac, Infiltration Cellular, Histiocyte |   |   |  |  |   |  |  |   |   |  |   |  |  |  |  |   |   |  |  |   |  |   |  |  | 3 |
| Lymph Node, Mandibular                   |   |   |  |  |   |  |  |   |   |  |   |  |  |  |  |   |   |  |  |   |  |   |  |  |   |
|  |   |   |  |  |   |  |  |   |   |  |   |  |  |  |  |   |   |  |  |   |  |   |  |  | + |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
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 BLANK .. Not examined microscopically  
 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>300 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | females<br>(cont...) |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
|   | 0622        | 0625  | 0627  | 0629  | 0630  | 0631  | 0632  | 0633  | 0634  | 0635  | 0636  | 0637  | 0638  | 0639  | 0640  | 0641  | 0642  | 0643  | 0644  | 0645  | 0646  | 0647  | 0648  | 0649  |                      |
|   | ANIMAL ID   | 00351 | 00352 | 00353 | 00354 | 00355 | 00356 | 00357 | 00358 | 00359 | 00360 | 00361 | 00362 | 00363 | 00364 | 00365 | 00366 | 00367 | 00368 | 00369 | 00370 | 00371 | 00372 | 00373 |                      |
| Lymph Node, Mesenteric Hemorrhage                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
| Lymphatic, Ectasia                                |             |       |       | 1     | 1     |       |       | 1     |       |       |       | 3     |       |       |       | 3     |       | 1     | 2     |       |       |       | 1     | 1     | 2                    |
| Spleen Hematopoietic Cell Proliferation           | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
|   | 3           |       | 1     | 2     | 3     |       | 3     | 3     |       | 3     | 1     |       | 2     |       | 3     | 3     | 2     |       | 3     |       | 2     | 3     |       | 2     | 2                    |
| Thymus Atrophy Hemorrhage                         | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     |                      |
|   | 3           | 4     | 4     | 2     | 2     | 2     | 2     | 1     |       |       |       | 1     | 1     | 2     | 2     | 3     | 2     | 2     | 1     | 3     | 4     | 1     |       | 2     | 3                    |

INTEGUMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mammary Gland Hyperplasia               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   | 1 |   |   |   | 2 |   |   |   | 2 |   |   |   |   |   |   |   | 1 |   |   |   |
| Skin Cyst Epithelial Inclusion Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

|                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brain Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

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First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

|  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| <b>HARLAN SPRAGUE DAWLEY RATS</b><br><b>FEMALE</b><br><b>300 mg/kg</b> | DAY ON TEST | 06 | 01 | 07 | 07 | 03 | 07 | 07 | 06 | 07 | 07 | 01 | 07 | 07 | 04 | 06 | 07 | 07 | 07 | 06 | 06 | 07 | 07 | 07 | 07 | 07 |
|  | ANIMAL ID   | 02 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
|  |             | 22 | 55 | 99 | 30 | 56 | 29 | 30 | 30 | 29 | 30 | 60 | 36 | 29 | 62 | 92 | 19 | 29 | 30 | 08 | 65 | 29 | 30 | 29 | 30 |    |
|  |             | 01 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 |    |
|  |             | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |    |
|  |             | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 |    |

females  
(cont...)

Urinary Bladder

+ +

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

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| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>300 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |       |       |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|-------|
|   | 0197        | 0390  | 0592  | 0770  | 0174  | 0770  | 0770  | 0770  | 0563  | 0779  | 0779  | 0675  | 0779  | 0770  | 0571  | 0779  | 0770  | 0677  | 0674  | 0779  |          | 0675  | 0779  | 0677  | 0779  | 0677  | 0779  | 0677  |
| ANIMAL ID   | 00376       | 00377 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | 00389 | 00390 | 00391 | 00392 | 00393 | 00394 | 00395 | 00396    | 00397 | 00398 | 00399 | 00400 | 00401 | 00402 | 00403 |
|   | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0        | 0     | 0     | 0     | 0     | 0     | 0     | 0     |

**ALIMENTARY SYSTEM**

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus Perforation                        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1      |
| Intestine Large, Cecum                       | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48     |
| Intestine Large, Colon                       | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48     |
| Intestine Large, Rectum                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Intestine Small, Duodenum Lymphatic, Ectasia | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47     |
|  |   | 1 | 1 | 2 |   | 1 | 1 | 1 | 2 | 1 | 1 |   | 3 | 1 | 1 | 3 | 1 | 1 |   | 1 | 1 |   | 1 | 1 |   | 1 | 1 |   | 38 1.5 |
| Intestine Small, Ileum                       | M | + | + | + | M | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47     |
| Intestine Small, Jejunum Lymphatic, Ectasia  | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48     |
|  |   | 3 | 3 | 3 |   | 2 | 2 | 2 | 3 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 2 | 2 |   | 2 | 3 | 3 | 2 | 1 | 3 |   |   |   | 47 2.5 |
| Liver  | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48     |
| Angiectasis                                  |   | 1 |   |   |   |   |   |   |   |   | 2 |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 1.7  |
| Basophilic Focus                             |   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   | 14     |
| Clear Cell Focus                             |   | X |   |   |   | X | X |   | X |   |   | X |   | X |   |   |   |   |   |   | X |   |   |   |   |   |   |   | 18     |
| Eosinophilic Focus                           |   |   |   |   |   | X |   |   |   |   |   |   |   | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   | 6      |
| Hepatodiaphragmatic Nodule                   |   |   | X |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2      |
| Inflammation, Chronic                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0  |
| Mixed Cell Focus                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4      |
| Bile Duct, Cyst                              |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   | 2 | 3 |   |   |   |   |   |   |   |   |   |   |   | 4 2.5  |
| Bile Duct, Cyst, Multiple                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 2.5  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + .. Tissue examined microscopically  
 X .. Lesion present  
 I .. Insufficient tissue  
 M .. Missing tissue  
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 1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>300 mg/kg | DAY ON TEST      |                  | ANIMAL ID        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | * TOTALS         |                  |                  |                  |    |     |     |     |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|----|-----|-----|-----|
|   | 0<br>1<br>9<br>7 | 0<br>7<br>3<br>0 | 0<br>5<br>9<br>2 | 0<br>7<br>3<br>0 | 0<br>1<br>8<br>4 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>7<br>3<br>0 | 0<br>5<br>6<br>3 | 0<br>7<br>2<br>9 | 0<br>7<br>2<br>9 | 0<br>6<br>0<br>5 | 0<br>7<br>2<br>3 | 0<br>7<br>3<br>0 | 0<br>5<br>7<br>1 | 0<br>7<br>2<br>9 | 0<br>7<br>3<br>0 | 0<br>6<br>4<br>5 | 0<br>6<br>7<br>4 | 0<br>7<br>2<br>9 | 0<br>6<br>4<br>5 | 0<br>7<br>2<br>9 | 0<br>6<br>7<br>8 | 0<br>7<br>2<br>9 | 0<br>7<br>3<br>0 |    |     |     |     |
| Adrenal Cortex                                    | M                | +                | +                | +                | M                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +  | 48  |     |     |
| Degeneration, Cystic                              |                  | 3                |                  |                  |                  | 2                | 3                |                  |                  |                  |                  |                  |                  | 1                |                  | 2                |                  | 3                |                  |                  |                  |                  |                  |                  |                  |                  |    |     | 15  | 2.3 |
| Degeneration, Fatty                               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |    | 1   | 2.0 |     |
| Hyperplasia                                       |                  | 3                |                  |                  |                  |                  |                  |                  | 1                | 1                |                  | 3                |                  |                  |                  |                  |                  | 4                |                  | 1                |                  |                  |                  |                  |                  |                  |    | 15  | 1.9 |     |
| Inflammation                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |    | 1   | 1.0 |     |
| Necrosis  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |    | 1   | 3.0 |     |
| Adrenal Medulla                                   | M                | +                | +                | +                | M                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +  | 48  |     |     |
| Hyperplasia                                       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 1                | 2                |                  |                  |                  |                  |                  |                  |                  | 1  | 12  | 1.7 |     |
| Islets, Pancreatic                                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +  | 50  |     |     |
| Parathyroid Gland                                 | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +  | 49  |     |     |
| Pituitary Gland                                   | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +  | 49  |     |     |
| Pars Distalis, Hyperplasia                        |                  | 2                | 1                | 1                |                  | 1                |                  | 4                | 1                | 1                |                  | 1                | 2                | 4                |                  | 2                |                  |                  |                  | 2                | 1                |                  | 3                |                  | 4                |                  | 24 | 2.0 |     |     |
| Thyroid Gland                                     | +                | +                | A                | +                | A                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +                | +  | 47  |     |     |
| C-cell, Hyperplasia                               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 2                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |    | 5   | 2.6 |     |
| Follicular Cell, Hyperplasia                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  | 3                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |    | 1   | 3.0 |     |
| Follicular Cell, Hypertrophy                      |                  |                  |                  | 2                |                  | 1                | 1                | 2                |                  |                  |                  |                  | 2                | 3                | 4                | 2                | 1                | 3                | 3                | 2                |                  |                  | 3                | 1                |                  |                  | 30 | 2.0 |     |     |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

|                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |  |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|--|
| Clitoral Gland | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |  |
| Cyst           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   | 3 | 3 |   |   |   |   |   | 3 | 4  | 3.0 |  |

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

+ .. Tissue examined microscopically

X .. Lesion present

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A .. Autolysis precludes evaluation

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Experiment Number: 20006 - 03

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Species/Strain: RATS/HSD

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

Indole-3-carbinol  
CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

First Dose M/F: 03/14/07 / 03/15/07

Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>300 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |        |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|--------|
|   | 0197        | 0390  | 0592  | 0730  | 0834  | 0700  | 0770  | 0773  | 0563  | 0729  | 0769  | 0775  | 0679  | 0770  | 0571  | 0729  | 0733  | 0249  | 0664  | 0677  | 0764  | 0675  | 0769  | 0770  |          |       |        |
| ANIMAL ID   | 00376       | 00377 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | 00389 | 00390 | 00391 | 00392 | 00393 | 00394 | 00395 | 00396 | 00397 | 00398 | 00399 |          |       |        |
| Inflammation                                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3        | 2 3.0 |        |
| Ovary   | +           | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 49       |       |        |
| Angiectasis                                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          | 1 3.0 |        |
| Atrophy   |             |       |       | 3     |       |       |       |       | 2     |       | 1     | 2     |       | 1     | 3     |       |       | 1     | 1     | 3     | 1     | 2     | 2     | 2     | 2        |       | 30 1.9 |
| Cyst  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |       | 2     | 1     | 2     |       |       |       | 2        |       | 16 2.3 |
| Inflammation, Acute                               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1 2.0  |
| Inflammation, Chronic                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1 2.0  |
| Inflammation, Chronic Active                      |             |       |       |       |       |       |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1 1.0  |
| Uterus  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |       |        |
| Dilatation  |             |       |       | 4     |       |       |       |       |       |       | 4     |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 5 2.8  |
| Inflammation, Acute                               |             |       |       | 2     |       |       |       |       |       | 2     |       | 1     |       |       | 2     |       |       | 2     |       | 1     |       | 2     |       |       | 2        |       | 9 1.8  |
| Thrombosis  |             |       |       | 3     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1 3.0  |
| Endometrium, Hyperplasia, Cystic                  |             |       |       |       |       |       |       |       | 3     |       | 2     | 1     |       | 1     | 3     |       |       | 2     | 1     |       | 2     |       | 2     | 3     | 1        |       | 21 1.9 |
| Endometrium, Metaplasia, Squamous                 |             |       |       | 2     |       |       |       |       |       |       |       |       |       |       | 2     |       |       | 2     | 2     | 1     |       |       |       |       | 1        |       | 11 1.8 |
| Vagina  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 2      |
| <b>HEMATOPOIETIC SYSTEM</b>                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |        |
| Bone Marrow                                       | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50    |        |
| Hyperplasia                                       | 1           |       | 2     | 1     |       |       | 2     |       |       | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1        |       | 17 1.9 |
| Lymph Node  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 3      |
| Axillary, Hyperplasia, Lymphoid                   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1 3.0  |
| Iliac, Infiltration Cellular, Histiocyte          |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       | 1 3.0  |
| Lymph Node, Mandibular                            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | 50    |        |

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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|  | 0197        | 0390  | 0592  | 0730  | 0834  | 0730  | 0770  | 0773  | 0773  | 0533  | 0723  | 0723  | 0602  | 0723  | 0730  | 0571  | 0723  | 0730  | 0624  | 0674  | 0724  | 0674  | 0724  | 0730  |          |
| ANIMAL ID  | 00376       | 00377 | 00378 | 00379 | 00380 | 00381 | 00382 | 00383 | 00384 | 00385 | 00386 | 00387 | 00388 | 00389 | 00390 | 00391 | 00392 | 00393 | 00394 | 00395 | 00396 | 00397 | 00398 | 00399 |          |
| Lymph Node, Mesenteric Hemorrhage Lymphatic, Ectasia | M           | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 48    |          |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3     | 2     |       | 1     | 3     | 1     |          |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Spleen Hematopoietic Cell Proliferation              | M           | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 48    |          |
|  |             |       | 3     |       |       | 2     | 2     | 3     | 1     | 1     | 2     |       | 2     |       | 2     |       | 1     | 2     | 2     | 1     | 3     |       | 3     | 3     |          |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Thymus Atrophy Hemorrhage                            | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |
|  | 1           |       | 2     |       |       | 2     | 3     | 1     | 4     | 2     | 4     |       |       | 2     | 3     | 1     | 3     |       |       | 2     |       | 2     | 3     |       |          |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |

INTEGUMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland Hyperplasia               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   | 1 | 1 |   |   |   |   |   |   |   |    |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Skin Cyst Epithelial Inclusion Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |

MUSCULOSKELETAL SYSTEM

|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Bone            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
| Skeletal Muscle |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |   | 1  |

NERVOUS SYSTEM

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

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