

**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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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
<b>HARLAN SPRAGUE DAWLEY RATS MALE</b>	<b>0 mg/kg</b>	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	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
	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
		1	2	3	4	5	6	7	8	9	0	1	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

males (cont...)

**ALIMENTARY SYSTEM**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Intestine Large, Cecum Necrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
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	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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

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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

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
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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																								ANIMAL ID	males (cont...)	
	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 5 5	0 7 2 9	0 5 0 5	0 5 7 5	0 6 4 5	0 7 2 0	0 5 4 5	0 6 2 0			0 7 4 0
	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 1 0	0 0 0 1 1	0 0 0 1 2	0 0 0 1 3	0 0 0 1 4	0 0 0 1 5	0 0 0 1 6	0 0 0 1 7	0 0 0 1 8	0 0 0 2 9	0 0 0 2 0	0 0 0 2 1	0 0 0 2 2	0 0 0 2 3	0 0 0 2 4	0 0 0 2 5		
Pars Distalis, Hyperplasia	2				1	1	3	3				2								1	1					1	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Thrombosis																											
C-cell, Hyperplasia								2											2								
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																		1									
Necrosis																										3	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+

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		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	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
<b>HARLAN SPRAGUE DAWLEY RATS</b>	<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
		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
<b>0 mg/kg</b>	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	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

Mammary Gland

+ +

Skin  
Cyst Epithelial Inclusion  
Inflammation  
Epidermis, Ulcer

+  
X X  
1  
3

**MUSCULOSKELETAL SYSTEM**

Bone  
Fibrous Osteodystrophy

+  
3 3 3 3 3 3 3

**NERVOUS SYSTEM**

Brain

+ +

**RESPIRATORY SYSTEM**

Lung  
Hemorrhage, Multifocal  
Inflammation, Chronic  
Necrosis  
Alveolar Epithelium, Hyperplasia  
Alveolus, Infiltration Cellular, Histiocyte  
Alveolus, Mineralization

+  
1 1 2 1  
3 3

Nose  
Foreign Body  
Fungus  
Inflammation

+  
X  
2

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|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>0 mg/kg | DAY ON TEST | 07   | 07   | 06   | 01   | 07   | 07   | 07   | 04   | 06   | 06   | 06   | 06   | 04   | 06   | 06   | 05   | 06   | 06   | 05   | 07   | 05   | 05   | 06   | 07   | 06   | 07   | 06   | males<br>(cont...) |
|   | ANIMAL ID   | 0001 | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 |                    |

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 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 4 3 3 3 3 4 3 3 3

Urinary Bladder

+ +

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| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | * TOTALS |    |    |
|-------------|---------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|
|             | 07                              | 06 | 07 | 07 | 06 | 06 | 01 | 06 | 07 | 07 | 04 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 |          | 04 | 04 |
| 02          | 9                               | 2  | 2  | 8  | 8  | 8  | 6  | 2  | 2  | 2  | 2  | 2  | 2  | 1  | 2  | 2  | 3  | 2  | 2  | 2  | 8        | 4  | 7  |
| 07          | 3                               | 9  | 7  | 5  | 4  | 8  | 9  | 8  | 8  | 1  | 8  | 8  | 8  | 6  | 9  | 9  | 9  | 8  | 6  | 9  | 5        | 4  | 4  |
| ANIMAL ID   | 00                              | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       | 00 | 00 |
| 00          | 00                              | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00 | 00       | 00 | 00 |
| 26          | 7                               | 2  | 8  | 9  | 0  | 1  | 2  | 3  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 0  | 1  | 2  | 3  | 4  | 5        | 6  | 5  |

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

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Lab: BAT

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|---|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|
|   | 07          | 06 | 07 | 07 | 06 | 06 | 01 | 06 | 07 | 07 | 04 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 | 07 |          | 07 | 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 |    |
| 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  |    |    |    | 2  | 2  |    |          | 3  | 2  | 2  |
| Inflammation                                  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |
| Necrosis                                      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |
| Ulcer   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |
| Stomach, Glandular                            | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +        | +  | +  |    |
| Epithelium, Hyperplasia                       |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |
| Epithelium, Inflammation, Chronic Active      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 1  |    |    |    |          |    |    |    |
| Epithelium, Mineralization                    |             |    |    |    |    |    | 3  |    |    |    |    |    |    |    |    |    |    |    |    |    | 2        |    | 2  |    |
| Epithelium, Necrosis                          |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |
| Tooth   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |
| Necrosis                                      |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |

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

| DAY ON TEST | HARLAN SPRAGUE DAWLEY RATS MALE |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | * TOTALS |      |
|-------------|---------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|------|
|             | 0727                            | 0693 | 0729 | 0727 | 0685 | 0664 | 0168 | 0676 | 0778 | 0742 | 0774 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 | 0778 |          | 0778 |
| ANIMAL ID   | 0000                            | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000 | 0000     | 0000 |

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| Blood Vessel Dilatation      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| Inflammation, Chronic Active | 2 | 2 | 3 | 2 | 2 |   |   | 2 | 1 | 2 |   | 2 | 1 |   | 2 |   | 2 | 1 |   | 2 | 2 | 2 | 2  |
| 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  |
| Mineralization               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 47 |
| Atrium, Thrombosis           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |
| Epicardium, Inflammation     |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  |

**ENDOCRINE SYSTEM**

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| 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 |

\* .. 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>0 mg/kg | DAY ON TEST          |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | * TOTALS |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|
|   | 07<br>27             | 06<br>93             | 07<br>29             | 07<br>27             | 06<br>85             | 06<br>64             | 01<br>88             | 06<br>69             | 07<br>28             | 07<br>28             | 04<br>21             | 07<br>28             | 07<br>28             | 07<br>28             | 07<br>28             | 07<br>28             | 07<br>28             | 07<br>28             | 07<br>28             | 05<br>28             | 07<br>28             | 07<br>28             | 04<br>28             | 04<br>28             |          |
| ANIMAL ID                                     | 00<br>00<br>00<br>26 | 00<br>00<br>00<br>27 | 00<br>00<br>00<br>28 | 00<br>00<br>00<br>29 | 00<br>00<br>00<br>30 | 00<br>00<br>00<br>31 | 00<br>00<br>00<br>32 | 00<br>00<br>00<br>33 | 00<br>00<br>00<br>34 | 00<br>00<br>00<br>35 | 00<br>00<br>00<br>36 | 00<br>00<br>00<br>37 | 00<br>00<br>00<br>38 | 00<br>00<br>00<br>39 | 00<br>00<br>00<br>40 | 00<br>00<br>00<br>41 | 00<br>00<br>00<br>42 | 00<br>00<br>00<br>43 | 00<br>00<br>00<br>44 | 00<br>00<br>00<br>45 | 00<br>00<br>00<br>46 | 00<br>00<br>00<br>47 | 00<br>00<br>00<br>48 | 00<br>00<br>00<br>49 |          |

|                              |   |   |   |   |   |   |   |    |     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |
|------------------------------|---|---|---|---|---|---|---|----|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| Pars Distalis, Hyperplasia   | 2 | 4 | 2 | 1 | 1 | 4 | 3 | 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 |   |   | 2 |   | 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             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   | 1  | 2.0 |
| Fibrosis            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 2.0 |
| Hyperplasia         | 3 |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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  
 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>MALE<br>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 | 27 | 88 | 88 | 21 | 22 | 29 | 27 | 39 | 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 | 84 | 95 | 00 |    |    |          |

|                                      |   |   |   |   |   |  |  |   |   |   |   |  |  |   |   |   |   |   |   |  |   |   |   |           |            |            |
|--------------------------------------|---|---|---|---|---|--|--|---|---|---|---|--|--|---|---|---|---|---|---|--|---|---|---|-----------|------------|------------|
| Atrophy                              | 1 | 1 | 2 | 3 | 2 |  |  | 3 | 1 | 3 | 2 |  |  | 2 | 4 | 4 | 2 | 1 | 1 |  | 1 | 2 | 4 | <b>30</b> | <b>2.1</b> |            |
| Artery, Inflammation, Chronic Active | 3 | 2 | 3 | 3 | 2 |  |  | 3 | 1 | 2 | 2 |  |  | 2 |   |   |   | 1 | 1 |  | 1 | 3 | 4 | 1         | <b>28</b>  | <b>2.3</b> |
| Interstitial Cell, Hyperplasia       |   |   |   |   |   |  |  |   |   |   |   |  |  |   |   |   |   | 1 |   |  |   |   |   |           | <b>1</b>   | <b>1.0</b> |

**HEMATOPOIETIC SYSTEM**

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

**INTEGUMENTARY SYSTEM**

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>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  |          |  |  |
| 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 |          |  |  |
| Mammary Gland                                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |  |  |
| Skin  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       |  |  |
| Cyst Epithelial Inclusion                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 5        |  |  |
| Inflammation                                  |             |       |       |       |       |       |       |       |       |       | 3     |       |       |       |       |       |       |       |       |       |       | 3     |       |       | 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    |  |  |

\* .. 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

| DAY ON TEST   | HARLAN SPRAGUE DAWLEY RATS MALE |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | ANIMAL ID | * TOTALS |     |     |
|---|---------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|----------|-----|-----|
|   | 07                              | 06 | 07 | 07 | 06 | 06 | 01 | 06 | 07 | 07 | 04 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 05 | 07 |           |          | 07  | 07  |
| 02  | 7                               | 9  | 2  | 2  | 8  | 8  | 8  | 6  | 2  | 2  | 2  | 2  | 2  | 2  | 1  | 2  | 2  | 2  | 3  | 2  | 2         | 2        | 8   | 4   |
| 07  | 3                               | 3  | 9  | 7  | 5  | 4  | 8  | 9  | 8  | 8  | 1  | 7  | 8  | 8  | 8  | 6  | 9  | 9  | 7  | 9  | 8         | 6        | 9   | 4   |
| 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  |
| 02  | 2                               | 2  | 2  | 2  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 3  | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 4         | 4        | 4   | 5   |
| 06  | 7                               | 8  | 8  | 9  | 0  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 0  | 1  | 2  | 3  | 4  | 5  | 6         | 7        | 8   | 9   |
| Inflammation, Chronic Active<br>Respiratory Epithelium, Hyperplasia | 1                               |    | 1  |    | 2  |    | 1  |    | 2  |    | 1  |    | 1  |    | 1  |    | 1  |    | 1  |    | 11        |          | 1.5 |     |
| Trachea<br>Inflammation   | +                               |    | +  |    | +  |    | +  |    | +  |    | +  |    | +  |    | +  |    | +  |    | +  |    | 50        |          | 2.0 |     |
| <b>SPECIAL SENSES SYSTEM</b>  |                                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |          |     |     |
| Eye   | +                               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |          | 50  |     |
| Anterior Chamber, Inflammation, Acute                               |                                 |    | 2  |    | 3  |    | 1  |    | 2  |    | 2  |    | 1  |    | 2  |    | 2  |    | 3  |    | 20        |          | 2.1 |     |
| Harderian Gland<br>Pigmentation, Porphyrin                          | +                               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |          | 50  | 3.0 |
| Lacrimal Gland<br>Degeneration                                      |                                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |          | 1   | 2.0 |
| <b>URINARY SYSTEM</b>   |                                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |          |     |     |
| Kidney<br>Nephropathy   | +                               |    | +  |    | +  |    | +  |    | +  |    | +  |    | +  |    | +  |    | +  |    | +  |    | 50        |          | 3.2 |     |
| Urinary Bladder   | +                               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |          | 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  
2) Mild 4) Marked

Experiment Number: 20006 - 03

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Indole-3-carbinol

CAS Number: 700-06-1

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Lab: BAT

|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |       |       |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|-------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>75 mg/kg | DAY ON TEST | 0692  | 0729  | 0637  | 0342  | 0472  | 0766  | 0666  | 0559  | 0336  | 0667  | 0772  | 0772  | 0772  | 0671  | 0664  | 0472  | 0575  | 0770  | 0659  | 0115  | 0550  | 0659  | 0602  | 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     |

ALIMENTARY SYSTEM

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

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

+ .. Tissue examined microscopically

X .. Lesion present

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked





| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>75 mg/kg   | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |      |      |      |      |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|------|------|------|------|------|
|  | 0692        | 0729 | 0637 | 0382 | 0441 | 0727 | 0669 | 0660 | 0559 | 0337 | 0665 | 0717 | 0772 | 0778 | 0778 | 0671 | 0668 | 0445 | 0728 | 0571 |           |                    | 0663 | 0150 | 0591 | 0559 | 0602 |
| Blood Vessel<br>Inflammation, Chronic Active<br>Mineralization                             | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  | +    | +    | +    |      |      |
|  | 2           |      | 3    |      |      | 2    | 2    | 2    | 2    |      | 3    | 1    | 1    | 1    | 1    | 2    | 2    | 2    | 2    | 2    | 3         | 2                  |      | 3    | 2    |      |      |
| Heart<br>Cardiomyopathy<br>Atrium, Thrombosis<br>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    |      |      |
| <b>ENDOCRINE SYSTEM</b>  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |      |      |      |      |
| Adrenal Cortex<br>Degeneration, Cystic<br>Degeneration, Fatty<br>Hyperplasia<br>Thrombosis | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  | +    | +    | +    |      |      |
|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |      |      |      |      |           |                    |      |      | 3    |      |      |
|  |             | 2    |      | 1    |      |      | 2    | 2    |      |      | 1    |      |      |      | 2    |      | 2    | 1    |      |      |           |                    |      |      |      |      |      |
|  | 1           |      |      |      | 2    |      |      |      |      | 2    |      |      | 3    |      |      |      |      |      |      |      |           |                    |      |      | 3    |      |      |
|  |             |      |      |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |      |      |      |      |
| Adrenal Medulla<br>Degeneration, Fatty<br>Hyperplasia                                      | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  | +    | +    | +    |      |      |
|  |             | 4    |      |      |      | 1    | 2    | 3    |      | 3    |      | 2    | 3    |      | 3    | 3    |      |      |      | 2    | 3         |                    | 1    |      |      |      |      |
| Islets, Pancreatic<br>Hyperplasia  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  | +    | +    | +    |      |      |
|  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           |                    |      |      | 2    |      |      |
| Parathyroid Gland<br>Hyperplasia   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M         | M                  | +    | M    | M    | +    |      |
|  |             | 1    |      |      |      |      |      |      | 3    |      | 2    |      |      |      |      |      |      |      |      |      |           |                    |      |      |      | 2    |      |
| Pituitary Gland<br>Pars Distalis, Hyperplasia  | +           | +    | +    | +    | M    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | +                  | +    | +    | +    |      |      |
|  | 3           |      | 2    | 2    |      | 2    |      | 4    |      |      |      |      |      | 4    |      |      |      |      |      |      | 2         | 4                  | 3    |      |      | 2    |      |

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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
|  | 0692        | 0729  | 0637  | 0382  | 0441  | 0777  | 0666  | 0655  | 0333  | 0666  | 0777  | 0777  | 0777  | 0666  | 0666  | 0444  | 0777  | 0555  | 0777  | 0666  | 0111  | 0555  | 0000  | 0000  |                    |
| 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                            |             |       |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       | 2     |       |       |                    |
| Follicular Cell, Hyperplasia                   |             |       |       |       |       |       | 4     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |
| 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                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |
| 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

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  | 0472  | 0766  | 0666  | 0555  | 0333  | 0666  | 0777  | 0777  | 0777  | 0666  | 0666  | 0444  | 0777  | 0555  | 0777  | 0666  | 0111  | 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 |                    |

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

+  
3

Lymph Node, Mesenteric

+  
Ectasia  
Hemorrhage

Spleen

Hematopoietic Cell Proliferation

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

Thymus

+ M  
Atrophy 1 1 2 4 2 4 1 3 2 3 3 3 4 4 1 1 3 2

INTEGUMENTARY SYSTEM

Mammary Gland

+ +

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+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>75 mg/kg | DAY ON TEST | 0692  | 0729  | 0637  | 0342  | 0477  | 0666  | 0055  | 0033  | 0066  | 0077  | 0077  | 0077  | 0066  | 0077  | 0066  | 0044  | 0077  | 0055  | 0077  | 0066  | 0011  | 0055  | 0066  | 0000  | 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 |                    |

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

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Indole-3-carbinol

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|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |                    |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>75 mg/kg | DAY ON TEST | 0692  | 0729  | 0637  | 0344  | 0477  | 0666  | 0655  | 0366  | 0536  | 0366  | 0777  | 0777  | 0666  | 0444  | 0757  | 0577  | 0666  | 0111  | 0555  | 0666  | 0000  | 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 |                    |
|  |             | 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

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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X .. Lesion present

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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|------|
|  | 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 |      |

**ALIMENTARY SYSTEM**

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |   |         |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|---|---------|
| Esophagus                            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |   |         |
| Inflammation                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 2 | 1 2.0   |
| Epithelium, Hyperplasia              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 1 | 1 1.0   |
| Intestine Large, Cecum               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |   |         |
| Hyperplasia, Lymphoid                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 3 | 1 3.0   |
| Necrosis                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 4 | 1 4.0   |
| 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 | + | + | + | + | A | + | + | + | + | +  | 39 |   |         |
| Lymphatic, Ectasia                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 2 | 2 1.0   |
| Liver                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +  | 50 |   |         |
| Cholangiofibrosis                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 2 | 1 2.0   |
| Clear Cell Focus                     |   |   |   | X |   | X | X |   | X |   |   |   |   |   | X | X |   |   |   |   |   | X | X | 13 |    |   |         |
| Eosinophilic Focus                   |   |   |   |   |   | X | X |   |   |   |   |   |   |   |   | X |   |   |   |   |   | X | X | 12 |    |   |         |
| Mixed Cell Focus                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | X |   | X | 2  |    |   |         |
| Necrosis                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    | 1 | 3 1.3   |
| Artery, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |   | 1 1.0   |
| Bile Duct, Hyperplasia               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |   | 1 4 1.0 |

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|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|--------------------------|--------|
|  | 0637        | 0661  | 0662  | 0651  | 0672  | 0677  | 0677  | 0644  | 0666  | 0644  | 0655  | 0666  | 0655  | 0633  | 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 |                          |        |
| Blood Vessel<br>Inflammation, Chronic Active<br>Mineralization                             | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 50                       |        |
|  | 2           | 2     | 2     | 2     | 2     | 3     | 3     | 2     | 3     |       | 2     |       | 1     | 2     |       |       |       |       | 2     | 2     |          | 3     | 2     |       | 2     | 2                        |        |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3     |       |          |       |       |       |       | 38 2.1<br>2 3.0          |        |
| Heart<br>Cardiomyopathy<br>Atrium, Thrombosis<br>Epicardium, Inflammation                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 50                       |        |
|  | 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     | 48 2.6<br>3 3.3<br>1 3.0 |        |
|  | 3           |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3     |       |       |       |       |          |       |       |       |       | 1 3.0                    |        |
| <b>ENDOCRINE SYSTEM</b>  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       |                          |        |
| Adrenal Cortex<br>Degeneration, Cystic<br>Degeneration, Fatty<br>Hyperplasia<br>Thrombosis | M           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 49                       |        |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 3                        |        |
|  |             |       |       |       |       |       |       |       |       | 1     |       | 2     |       | 2     | 2     |       |       |       |       |       |          |       | 3     |       |       | 13 1.8                   |        |
|  |             |       | 2     | 3     | 2     |       | 3     | 2     | 2     |       |       | 2     | 2     |       | 1     | 1     | 2     | 2     |       |       | 3        | 2     |       |       |       | 19 2.1                   |        |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1 2.0                    |        |
| Adrenal Medulla<br>Degeneration, Fatty<br>Hyperplasia                                      | M           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 49                       |        |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 1 1.0                    |        |
|  |             |       | 2     | 3     |       | 2     | 1     | 1     |       | 1     |       |       | 1     | 4     |       | 1     |       | 1     | 2     |       |          |       |       |       |       | 22 2.2                   |        |
| Islets, Pancreatic<br>Hyperplasia  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 50                       |        |
|  |             |       | 3     |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |       | 6 2.0                    |        |
| Parathyroid Gland<br>Hyperplasia   | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 46                       |        |
|  |             | 2     |       |       |       |       |       |       |       | 1     |       |       |       | 3     | 2     |       |       |       | 3     |       |          | 3     |       |       |       | 10 2.2                   |        |
| Pituitary Gland<br>Pars Distalis, Hyperplasia  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | +     | +     | 49                       |        |
|  |             | 2     |       |       | 3     |       |       |       |       |       | 1     |       |       |       |       | 1     |       |       |       |       | 3        |       | 3     |       | 4     | 2                        | 18 2.6 |

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

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 04/16/2013

Test Type: CHRONIC

Indole-3-carbinol

Time Report Requested: 09:53:55

Route: GAVAGE

CAS Number: 700-06-1

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

Species/Strain: RATS/HSD

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  |          |     |     |
|                                 |  | 6           | 6 | 6 | 5 | 7 | 7 | 7 | 4 | 6 | 4 | 5 | 6 | 5 | 6 | 5 | 7 | 4 | 6 | 6 | 5 | 6 | 7 | 6 | 7 | 7  |          |     |     |
|                                 |  | 3           | 1 | 2 | 1 | 2 | 2 | 2 | 4 | 1 | 5 | 0 | 5 | 3 | 5 | 9 | 2 | 8 | 6 | 7 | 8 | 5 | 2 | 1 | 2 | 2  |          |     |     |
|                                 |  | 7           | 7 | 3 | 6 | 7 | 9 | 8 | 8 | 6 | 6 | 5 | 3 | 1 | 7 | 8 | 9 | 1 | 9 | 2 | 5 | 7 | 4 | 8 | 9 |    |          |     |     |
| HARLAN SPRAGUE DAWLEY RATS MALE |  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |          |     |     |
| 75 mg/kg                        |  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |          |     |     |
|                                 |  | ANIMAL ID   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |          |     |     |
|                                 |  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |          |     |     |
|                                 |  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |          |     |     |
|                                 |  | 0           | 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 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9  |          |     |     |
|                                 |  | 6           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |    |          |     |     |
|                                 |  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | * TOTALS |     |     |
| Thyroid Gland                   |  | +           | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | A | + | + | + | + | 46 |          |     |     |
| C-cell, Hyperplasia             |  | 2           |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 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 |  |
|-------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|

\* .. 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  | 0666  | 0657  | 0674  | 0666  | 0666  | 0655  | 0667  | 0667  | 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 |          |     |     |
| 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 Ectasia                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    | 1        | 3.0 |     |
| Lymph Node, Mesenteric Ectasia                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    | 1        | 3.0 |     |
| Hemorrhage                                     |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     | 1        | 1.0 |     |
| Spleen Hematopoietic Cell Proliferation        | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    | 33       | 2.2 |     |
| Atrophy  | 3           | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 3     |       | 2     |       |       | 3     | 2     |       |       | 2     | 3     | 1     |       | 2     | 49    | 41       | 2.6 |     |

**INTEGUMENTARY SYSTEM**

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

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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>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 | 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  
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|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| 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  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   | 3 |   |   |   |   | 1 |   |
| Bile Duct, Cyst                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
| Bile Duct, Cyst, Multiple                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |
| Bile Duct, Fibrosis                             |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |

\* .. 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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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>150 mg/kg   | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | males<br>(cont...) |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |  |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|--|
|   | 0693        | 0728 | 0758 | 0779 | 0779 | 0556 | 0556 | 0556 | 0665 | 0556 | 0665 | 0556 | 0665 | 0556 | 0665 | 0556 | 0665 | 0556 | 0665 | 0556 |           |                    | 0665                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |  |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0011001            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |  |
| Bile Duct, Hyperplasia  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 2         | 1                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |  |
| Mesentery   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | +         |                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |  |
| Oral Mucosa<br>Hyperplasia, Squamous  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | 0011001            | 3                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |  |
| Pancreas<br>Acinus, Hyperplasia<br>Artery, Inflammation, Chronic Active   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | 0011001            | 3 1 3 2 1 2 1 1 1 1 1 1 1 1 1 1 2 2 2 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |  |
| Salivary Glands   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | +         | +                  | +                                       | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 0011001 |  |
| Stomach, Forestomach<br>Erosion<br>Hyperplasia<br>Inflammation<br>Ulcer   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | 0011001            | 3 3 1 3 2 2 1 2 2 2 3                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |  |
| Stomach, Glandular<br>Epithelium, Amyloid Deposition<br>Epithelium, Hyperplasia<br>Epithelium, Inflammation, Chronic Active<br>Epithelium, Mineralization | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +         | 0011001            | 3 2 2 1 1 2 1 2                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |  |
| Tooth<br>Malformation   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |           | +                  | 3                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |         |  |

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 | 0659 | 0590 | 0556 | 0664 | 0593 | 0643 | 0773 | 0773 | 0773 | 0486 | 0779 | 0779 | 0779 | 0779 | 0676 | 0772 | 0423 | 0772 |           |                    | 0377 | 0567 |
|   | 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 |   | 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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I .. Insufficient tissue  
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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>150 mg/kg | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |   |  | males<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|--|--------------------|
|   | 0693        | 0728 | 0577 | 0777 | 0575 | 0656 | 0555 | 0655 | 0566 | 0777 | 0777 | 0777 | 0474 | 0777 | 0777 | 0777 | 0676 | 0777 | 0474 | 0777 | 0373 | 0575 | 0777 |   |  |                    |
| 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 |   |  |                    |
| 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  | + | + | + | + | 3 | 3 |   |   | 4 |   |   |   |   | M | + | + | + | + | + | + | + | + | + |   |
| Prostate Fibrosis Hyperplasia   | + | + | 2 |   |   | 3 |   | 3 |   |   |   |   |   | 3 |   | 2 |   |   | 2 |   |   |   |   |   |
| Seminal Vesicle Hypoplasia  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | + |   |
| Testes Atrophy  | + | 3 | 1 | 3 | 1 |   | 3 | 1 |   |   | 2 | 3 |   |   | 1 |   |   | 3 | 2 | 2 |   | 1 |   | 2 |
| Pigmentation, Hemosiderin Artery, Inflammation, Chronic Active Interstitial Cell, Hyperplasia |   |   | 1 | 4 | 3 |   | 4 | 1 |   | 2 | 2 | 3 |   | 2 |   | 2 | 3 |   | 2 |   | 2 |   | 2 |   |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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Indole-3-carbinol

CAS Number: 700-06-1

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Lab: BAT

|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>150 mg/kg | DAY ON TEST | 0693 | 0728 | 0587 | 0779 | 0520 | 0655 | 0590 | 0562 | 0674 | 0553 | 0664 | 0773 | 0777 | 0488 | 0722 | 0770 | 0672 | 0742 | 0737 | 0367 | 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 |                    |
|   |             | 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<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 |
|  |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   | 2 |

INTEGUMENTARY SYSTEM

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

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Lab: BAT

|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>150 mg/kg | DAY ON TEST | 0693 | 0728 | 0587 | 0779 | 0777 | 0556 | 0659 | 0590 | 0562 | 0673 | 0772 | 0772 | 0488 | 0722 | 0720 | 0772 | 0676 | 0722 | 0423 | 0772 | 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 |                    |
|   |             | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    |                    |

|                           |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 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  
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>150 mg/kg | DAY ON TEST |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | males<br>(cont...) |     |
|---|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|
|   | 063         | 072 | 088 | 079 | 077 | 050 | 065 | 059 | 055 | 066 | 056 | 077 | 077 | 077 | 044 | 077 | 077 | 077 | 077 | 066 | 077 | 044 | 077 | 033 |                    | 055 |
| ANIMAL ID                                       | 001         | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001 | 001                | 001 |

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

SPECIAL SENSES SYSTEM

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

URINARY SYSTEM

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

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Species/Strain: RATS/HSD

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

Indole-3-carbinol  
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Lab: BAT

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|---|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----|
|   | 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>27 |    |
| 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  |

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+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

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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  
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Lab: BAT

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|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|----|-----|--------|
|  | 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  | 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  | 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  | 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**

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|---|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|-----|
|   | 07<br>29    | 07<br>29 | 04<br>82 | 05<br>93 | 07<br>28 | 05<br>88 | 05<br>83 | 06<br>63 | 04<br>92 | 07<br>99 | 06<br>60 | 06<br>64 | 04<br>86 | 05<br>64 | 06<br>97 | 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

+ .. 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>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 |     |     |
|   | 29          | 29   | 82   | 93   | 28   | 58   | 83   | 33   | 99   | 29   | 90   | 64   | 68   | 46   | 97   | 49   | 27   | 11   | 27   | 31   | 66   | 12   | 11   | 27   |          | 27 |     |     |
| ANIMAL ID                                       | 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                      | 2           | 2    | 1    |      | 2    |      |      |      |      | 1    | 3    |      |      |      |      |      |      |      | 3    | 2    | 2    |      |      | 1    | 1        | 19 | 2.0 |     |
| Thyroid Gland                                   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    | +    | +        | 48 |     |     |
| C-cell, Hyperplasia                             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          | 4  | 2.8 |     |
| Follicular Cell, Hypertrophy                    | 2           | 2    |      | 2    | 3    |      | 3    | 3    | 1    |      | 2    |      | 1    | 2    |      |      | 2    | 1    | 3    | 3    | 2    |      | 3    | 3    | 2        | 2  | 33  | 2.1 |

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |     |     |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|-----|
| Epididymis                           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |     |
| Preputial Gland                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |     |     |     |
| Cyst                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 3.3 |     |     |
| Prostate                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |     |     |
| Fibrosis                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 2.0 |     |     |
| Hyperplasia                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   | 2 | 3 | 7  | 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 | 1 | 1 | 2 | 2 | 2 |   | 2 | 2 |   | 2  | 3   | 35  | 1.7 |
| Pigmentation, Hemosiderin            |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   | 1  | 1.0 |     |     |
| Artery, Inflammation, Chronic Active | 3 | 2 |   |   |   | 1 |   | 3 | 2 | 2 | 2 |   |   |   |   | 2 | 1 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 2 | 3  | 3   | 33  | 2.3 |
| Interstitial Cell, Hyperplasia       | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1   | 1.0 |     |

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

+ .. Tissue examined microscopically

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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>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>23 | 05<br>66 | 06<br>71 | 06<br>11 | 07<br>27 | 07<br>27 |          |       |
| ANIMAL ID                                       | 00126       | 00017    | 00018    | 00009    | 00011    | 00013    | 00014    | 00015    | 00016    | 00017    | 00018    | 00019    | 00020    | 00021    | 00022    | 00023    | 00024    | 00025    | 00026    | 00027    | 00028    | 00029    | 00030    | 00031    | 00032    | 00033 |

**HEMATOPOIETIC SYSTEM**

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

**INTEGUMENTARY SYSTEM**

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

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

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|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
|   | 07          | 07   | 04   | 05   | 07   | 05   | 05   | 06   | 04   | 07   | 06   | 06   | 04   | 05   | 06   | 05   | 07   | 07   | 07   | 05   | 06   | 07   | 06   | 07   |          |
| ANIMAL ID                                       | 0011        | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021 | 0022 | 0023 | 0024 | 0025 | 0026 | 0027 | 0028 | 0029 | 0030 | 0031 | 0032 | 0033 | 0034 | 0035     |
|   | 29          | 29   | 22   | 23   | 28   | 28   | 23   | 23   | 29   | 29   | 0    | 4    | 8    | 6    | 7    | 9    | 7    | 1    | 2    | 3    | 6    | 1    | 2    | 7    | 7        |
|   | 6           | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9        |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| 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                          |   | 3 |   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4 2.5  |

URINARY SYSTEM

|                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Kidney                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Nephropathy              | 3 | 3 | 3 | 3 | 2 | 4 | 3 | 4 | 4 | 3 | 4 | 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     |

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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  | 0665  | 0661  | 0589  | 0777  | 0777  | 0777  | 0778  | 0640  | 0415  | 0650  | 0388  | 0665  | 0727  | 0668  | 0450  | 0661  | 0751  | 0671  | males<br>(cont...) |
|   | ANIMAL ID   | 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 |                    |
|   |             | 073   | 077   | 079   | 077   | 075   | 078   | 077   | 075   | 077   | 079   | 077   | 077   | 077   | 078   | 070   | 072   | 078   | 076   | 073   | 079   | 077   | 078   | 071   | 078   | 071   |                    |

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 | 0629 | 0477 | 0575 | 0498 | 0597 | 0665 | 0661 | 0589 | 0777 | 0772 | 0777 | 0778 | 0664 | 0415 | 0650 | 0368 | 0665 | 0727 | 0668 | 0401 | 0661 | 0751 |           |                    |
|   | 0015        | 0011 | 0013 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011 | 0011      |                    |

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

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

2

2

2

2

2

1

Epithelium, Mineralization

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

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

|   |           | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | males<br>(cont...) |   |   |   |   |
|---|-----------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|
| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>300 mg/kg | ANIMAL ID | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                    | 0 | 0 |   |   |
|   |           | 6           | 7 | 6 | 4 | 5 | 4 | 5 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 6 | 4 | 6 | 3 | 6 | 6 |                    | 7 | 6 | 4 | 6 |
|   |           | 7           | 2 | 2 | 7 | 7 | 9 | 9 | 1 | 1 | 8 | 2 | 2 | 2 | 2 | 4 | 1 | 5 | 0 | 8 | 5 | 2                  | 5 | 0 | 5 | 1 |
|   |           | 3           | 7 | 9 | 7 | 5 | 8 | 7 | 5 | 7 | 9 | 7 | 7 | 7 | 8 | 0 | 2 | 8 | 6 | 3 | 9 | 7                  | 8 | 1 | 1 | 2 |
|   |           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                  | 0 | 0 | 0 | 0 |
|   |           | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                  | 0 | 0 | 0 | 0 |
|   |           | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1                  | 1 | 1 | 1 | 1 |
|   |           | 5           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 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 |

|   |   |  |  |  |  |  |  |  |  |   |   |   |  |   |  |   |   |  |   |   |   |   |  |  |   |
|---|---|--|--|--|--|--|--|--|--|---|---|---|--|---|--|---|---|--|---|---|---|---|--|--|---|
| Inflammation, Chronic Active Mineralization | 2 |  |  |  |  |  |  |  |  | 3 | 1 | 2 |  | 2 |  | 1 | 2 |  | 1 | 2 | 2 | 2 |  |  | 1 |
|---|---|--|--|--|--|--|--|--|--|---|---|---|--|---|--|---|---|--|---|---|---|---|--|--|---|

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

**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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
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1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
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Experiment Number: 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 | 0673  | 0727  | 0622  | 0477  | 0579  | 0499  | 0561  | 0061  | 0058  | 0777  | 0777  | 0777  | 0640  | 0415  | 0630  | 0368  | 0665  | 0722  | 0658  | 0401  | 0661  | 0771  | 0645  | 0767  | 0071  | males<br>(cont...) |
|   | ANIMAL ID   | 00151 | 00122 | 00033 | 00044 | 00035 | 00026 | 00047 | 00038 | 00029 | 00010 | 00011 | 00012 | 00013 | 00014 | 00015 | 00016 | 00017 | 00018 | 00019 | 00020 | 00021 | 00022 | 00023 | 00024 | 00025 |                    |
|   |             | 073   | 077   | 022   | 077   | 099   | 099   | 055   | 077   | 055   | 077   | 077   | 077   | 088   | 044   | 011   | 050   | 036   | 066   | 055   | 022   | 058   | 001   | 066   | 077   | 007   |                    |

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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+ .. Tissue examined microscopically  
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I .. Insufficient tissue  
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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>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 | 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 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

\* .. 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 | 0673  | 0727  | 0629  | 0477  | 0575  | 0498  | 0597  | 0665  | 0667  | 0589  | 0777  | 0777  | 0777  | 0778  | 0640  | 0415  | 0650  | 0368  | 0665  | 0727  | 0668  | 0450  | 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 | 00175 |                    |
|   |             | 0     | 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

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol  
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Lab: BAT

|  |                  | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | males<br>(cont...) |
|--|------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|
|  |                  | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                    |
|  |                  | 6           | 7 | 6 | 4 | 5 | 4 | 5 | 6 | 6 | 5 | 7 | 7 | 7 | 7 | 6 | 4 | 6 | 3 | 6 | 6 | 7 | 6 | 4 | 6 | 7 |                    |
| <b>HARLAN SPRAGUE DAWLEY RATS<br/>MALE</b> | <b>300 mg/kg</b> | 7           | 2 | 2 | 7 | 7 | 9 | 9 | 1 | 1 | 8 | 2 | 2 | 2 | 2 | 4 | 1 | 5 | 0 | 8 | 5 | 2 | 5 | 0 | 5 | 1 |                    |
|  |                  | 3           | 7 | 9 | 7 | 5 | 8 | 7 | 5 | 7 | 9 | 7 | 7 | 7 | 8 | 0 | 2 | 8 | 6 | 3 | 9 | 7 | 8 | 1 | 1 | 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 |                    |
|  |                  | 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 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |   |                    |
|  |                  | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |   |                    |

|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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                             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

**SPECIAL SENSES SYSTEM**

|                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| 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 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**URINARY SYSTEM**

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

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Indole-3-carbinol  
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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>MALE<br>300 mg/kg | DAY ON TEST                                     |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | * TOTALS              |                       |                       |                       |                       |                  |
|---|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
|   | 0<br>4<br>6<br>2                                | 0<br>7<br>2<br>7      | 0<br>7<br>1<br>0      | 0<br>7<br>2<br>7      | 0<br>1<br>9<br>0      | 0<br>2<br>5<br>8      | 0<br>6<br>1<br>1      | 0<br>7<br>2<br>2      | 0<br>7<br>2<br>0      | 0<br>7<br>2<br>9      | 0<br>7<br>2<br>9      | 0<br>6<br>4<br>5      | 0<br>5<br>1<br>9      | 0<br>7<br>0<br>6      | 0<br>7<br>2<br>1      | 0<br>6<br>6<br>1      | 0<br>4<br>9<br>3      | 0<br>5<br>3<br>4      | 0<br>7<br>1<br>9      | 0<br>6<br>1<br>2      |                       | 0<br>5<br>3<br>2      | 0<br>7<br>2<br>7      | 0<br>6<br>2<br>1      | 0<br>5<br>2<br>3      | 0<br>5<br>3<br>1 |
| ANIMAL ID                                       | 0<br>0<br>1<br>7<br>6                           | 0<br>0<br>1<br>7<br>7 | 0<br>0<br>1<br>7<br>8 | 0<br>0<br>1<br>7<br>8 | 0<br>0<br>1<br>8<br>0 | 0<br>0<br>1<br>8<br>1 | 0<br>0<br>1<br>8<br>2 | 0<br>0<br>1<br>8<br>3 | 0<br>0<br>1<br>8<br>4 | 0<br>0<br>1<br>8<br>5 | 0<br>0<br>1<br>8<br>6 | 0<br>0<br>1<br>8<br>7 | 0<br>0<br>1<br>8<br>8 | 0<br>0<br>1<br>8<br>9 | 0<br>0<br>1<br>9<br>0 | 0<br>0<br>1<br>9<br>1 | 0<br>0<br>1<br>9<br>2 | 0<br>0<br>1<br>9<br>3 | 0<br>0<br>1<br>9<br>4 | 0<br>0<br>1<br>9<br>5 | 0<br>0<br>1<br>9<br>6 | 0<br>0<br>1<br>9<br>7 | 0<br>0<br>1<br>9<br>8 | 0<br>0<br>1<br>9<br>9 | 0<br>0<br>1<br>9<br>0 |                  |
| 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                     | 2 1.0            |
| Acinus, Hyperplasia                             | 1 3 2 4 1 2 2                                   |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 10                    | 2.2              |
| Artery, Inflammation, Chronic Active            | 1 2 2 3 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                               |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       |                       | 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  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
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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          | 02 | 07 | 00 | 09 | 05 | 08 | 01 | 02 | 02 | 02 | 02 | 04 | 01 | 00 | 02 | 00 | 06 | 09 | 03 | 01 | 01 | 03 | 02  | 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  | 00  |          |  |
|   | 11          | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11  | 11  |          |  |
|   | 77          | 77 | 77 | 77 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88  | 88  |          |  |
|   | 66          | 77 | 88 | 99 | 00 | 01 | 02 | 03 | 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 |          |  |
|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 1   |          |  |
|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 3.0 |          |  |
| 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   | 48  |          |  |
| Mineralization                                  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 2.4 |          |  |
| Atrium, Thrombosis                              |             |    |    |    |    |    | 3  | 3  | 4  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 1   |          |  |
|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 3.0 |          |  |
|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 3.3 |          |  |
| <b>ENDOCRINE SYSTEM</b>                         |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |          |  |
| Adrenal Cortex                                  | +           | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +   | 50  |          |  |
| Atrophy   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 1   |          |  |
| Degeneration, Cystic                            |             |    | 2  |    |    |    |    |    |    |    |    |    |    |    |    |    |    | 3  |    |    |    |    |    |     | 3.0 |          |  |
| Degeneration, Fatty                             |             | 2  |    | 1  |    |    |    |    | 2  |    | 2  | 3  |    | 1  |    | 2  | 3  |    |    | 1  |    |    |    | 1   | 4   |          |  |
|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 2.0 |          |  |
| Hyperplasia                                     |             |    |    |    |    |    |    |    | 2  | 2  |    | 2  |    |    |    |    |    |    |    |    |    |    |    | 6   |     |          |  |
| 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  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | M  | +   | 47  |          |  |
| Hyperplasia                                     |             |    |    |    |    |    |    |    |    |    | 3  |    |    |    |    |    | 3  |    |    |    |    |    |    | 8   |     |          |  |
|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 2.5 |          |  |
| Pituitary Gland                                 | +           | +  | +  | +  | +  | +  | I  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | M   | 47  |          |  |
| Pars Distalis, Hyperplasia                      |             |    |    | 1  |    |    |    |    | 1  |    |    | 4  |    | 1  | 2  |    |    |    | 2  |    |    |    | 2  | 1   | 12  |          |  |
|   |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     | 1.8 |          |  |
| Thyroid Gland                                   | +           | +  | A  | +  | +  | A  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | +  | A  | +   | +   | 47       |  |

\* .. 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 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | * 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 |          |   |  |
|   | 4           | 7 | 7 | 7 | 1 | 2 | 6 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 7 | 7 | 6 | 4 | 5 | 7 | 6 | 5 | 7 | 6 |          | 5 |  |
| ANIMAL ID                                       | 6           | 2 | 7 | 0 | 2 | 9 | 5 | 1 | 2 | 2 | 2 | 2 | 4 | 1 | 0 | 2 | 0 | 6 | 9 | 3 | 1 | 1 | 3 | 2 | 2        | 3 |  |
|   | 2           | 7 | 0 | 7 | 0 | 8 | 1 | 2 | 0 | 9 | 9 | 5 | 9 | 6 | 9 | 1 | 1 | 6 | 4 | 9 | 2 | 2 | 7 | 1 | 1        |   |  |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0        | 0 |  |
|   | 1           | 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 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9        |   |  |
| Inflammation                                    | 3           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 3.0    |   |  |
| Skin  | +           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 50       |   |  |
| Cyst Epithelial Inclusion                       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2        |   |  |
| Inflammation                                    |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 3.5    |   |  |
| Sebaceous Gland, Hyperplasia                    | 3           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 3.0    |   |  |
| <b>MUSCULOSKELETAL SYSTEM</b>                   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |  |
| Bone  | +           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 50       |   |  |
| Fibrous Osteodystrophy                          |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 8 3.1    |   |  |
| <b>NERVOUS SYSTEM</b>                           |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |  |
| Brain   | +           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 50       |   |  |
| Cyst Epithelial Inclusion                       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1        |   |  |
| Necrosis  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 2.5    |   |  |
| <b>RESPIRATORY SYSTEM</b>                       |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |          |   |  |
| Lung  | +           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 50       |   |  |
| Edema   |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0    |   |  |
| Fibrosis  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 2.0    |   |  |
| Hemorrhage                                      | 1           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0    |   |  |
| Hemorrhage, Multifocal                          | 1           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 7 1.9    |   |  |
| Inflammation, Chronic                           | 3           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 23 1.8   |   |  |
| Mineralization                                  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 4.0    |   |  |
| Alveolar Epithelium, Hyperplasia                |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 1.0    |   |  |
| Alveolus, Infiltration Cellular, Histiocyte     | 1 1 1 1     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 13 1.2   |   |  |
| Alveolus, Mineralization                        |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 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>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          | 02 | 07 | 00 | 07 | 00 | 08 | 01 | 02 | 00 | 09 | 09 | 05 | 09 | 06 | 09 | 01 | 01 | 06 | 09 | 03 | 04 | 09 | 02 | 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 | 00 |          |
|   | 01          | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 01 | 02 |          |
|   | 07          | 07 | 07 | 07 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 08 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | 00 |          |
|   | 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 |          |

|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |        |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| Nose                                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50     |
| Foreign Body                        |   |   |   |   |   |   |   |   | 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  
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1-4 .. Lesion qualified as:  
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Experiment Number: 20006 - 03

Test Type: CHRONIC

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**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

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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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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>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>4<br>2 | 0<br>3<br>7<br>3 | 0<br>7<br>3<br>0 | 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                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00201 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00202 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00203 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00204 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00205 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00206 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00207 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00208 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00209 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00210 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00211 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00212 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00213 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00214 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00215 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00216 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00217 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00218 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00219 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00220 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00221 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00222 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00223 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00224 |           |                      |
|   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 00225 |           |                      |

Acinus, Hyperplasia  
Artery, Inflammation, Chronic Active

Salivary Glands  
Inflammation

Stomach, Forestomach  
Hyperplasia  
Inflammation  
Ulcer

Stomach, Glandular  
Ulcer  
Epithelium, Hyperplasia

Tongue  
Erosion

CARDIOVASCULAR SYSTEM

Blood Vessel  
Inflammation, Chronic Active

Heart  
Cardiomyopathy  
Epicardium, Inflammation

ENDOCRINE SYSTEM

Adrenal Cortex  
Degeneration, Cystic

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 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...)  |                       |                       |                       |                       |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
|   | 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>0      |                       | 0<br>7<br>3<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>1<br>0 | 0<br>0<br>2<br>1<br>1 | 0<br>0<br>2<br>1<br>2 | 0<br>0<br>2<br>1<br>3 | 0<br>0<br>2<br>1<br>4 | 0<br>0<br>2<br>1<br>5 | 0<br>0<br>2<br>1<br>6 | 0<br>0<br>2<br>1<br>7 | 0<br>0<br>2<br>1<br>8 | 0<br>0<br>2<br>2<br>9 | 0<br>0<br>2<br>2<br>0 | 0<br>0<br>2<br>2<br>1 | 0<br>0<br>2<br>2<br>2 | 0<br>0<br>2<br>2<br>3 | 0<br>0<br>2<br>2<br>4 | 0<br>0<br>2<br>2<br>5 |
| 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  
+ .. 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...) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|
|   | 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:  
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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

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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...) |
|---|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|
|   | 0509        | 0730   | 0729   | 0729   | 0614   | 0729   | 0665   | 0662   | 0770   | 0779   | 0661   | 0770   | 0779   | 0663   | 0770   | 0666   | 0663   | 0373   | 0773   | 0772   | 0771   | 0773   | 0771   | 0538   | 0442   |                      |
| ANIMAL ID                                       | 002001      | 002002 | 002003 | 002004 | 002005 | 002006 | 002007 | 002008 | 002009 | 002010 | 002011 | 002012 | 002013 | 002014 | 002015 | 002016 | 002017 | 002018 | 002019 | 002020 | 002021 | 002022 | 002023 | 002024 | 002025 |                      |
| Lung  | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      |                      |
| Inflammation, Granulomatous                     |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1      |        |                      |
| 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                                    |             |        |        |        |        |        |        |        |        |        | X      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |                      |
| Inflammation, Chronic Active                    |             |        |        |        |        |        |        | 1      | 1      |        | 1      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |                      |
| Olfactory Epithelium, Degeneration              |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |                      |
| Trachea   | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      |                      |
| <b>SPECIAL SENSES SYSTEM</b>                    |             |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |                      |
| Eye   | +           | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      | +      |                      |
| Cataract  |             |        |        |        | 2      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |                      |
| 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

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 | 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

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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

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  | 0687  | 0288  | 0585  | 0484  | 0684  | 0783  | 0782  | 0783  | 0580  | 0782  | 0683  | 0789  | 0685  | 0783  |          | 0686  | 0581  | 0683 |       |       |       |
| 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 |      |       |       |       |
| Acinus, Hyperplasia                             |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       | 2    | 1 2.0 |       |       |
| Artery, Inflammation, Chronic Active            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |      | 3     | 1 3.0 |       |
| Salivary Glands Inflammation                    | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50   | 1 2.0 |       |       |
| Stomach, Forestomach Hyperplasia                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |      | 3     | 2 2.0 |       |
| Stomach, Forestomach Inflammation               |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |      |       | 1 1.0 |       |
| Stomach, Forestomach Ulcer                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |      |       | 1 2.0 |       |
| Stomach, Glandular Ulcer                        | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +        | +     | +     | 50   | 1 2.0 |       |       |
| Stomach, Glandular Epithelium, Hyperplasia      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |      | 2     | 1 2.0 |       |
| Tongue Erosion                                  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |      | +     | 1     | 1 3.0 |

**CARDIOVASCULAR SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |         |       |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------|-------|
| Blood Vessel Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 3.0   |       |
| Heart Cardiomyopathy                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 24 1.2  |       |
| Heart Epicardium, Inflammation            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1 1 1 1 | 1 2.0 |

**ENDOCRINE SYSTEM**

|                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |        |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--------|
| Adrenal Cortex Degeneration, Cystic | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 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 | 0730 | 0538 | 0729 | 0779 | 0627 | 0435 | 0369 | 0287 | 0548 | 0464 | 0673 | 0772 | 0773 | 0575 | 0723 | 0693 | 0735 |          | 0676 | 0735 | 0651 | 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 | 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  
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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

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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  | 0617  | 0425  | 0339  | 0607  | 0288  | 0542  | 0445  | 0730  | 0779  | 0770  | 0572  | 0730  | 0665  | 0735  | 0661  | 0513  | 0513  |       |          |
| 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 |          |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| 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 |     |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1  | 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

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  | 0627  | 0435  | 0369  | 0369  | 0287  | 0552  | 0446  | 0675  | 0772  | 0770  | 0572  | 0763  | 0695  |          | 0730  | 0650  | 0765   | 0613  | 0513   |
| 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 |        |
| 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     | 1      | 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

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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

CAS Number: 700-06-1

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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 | 0713 | 0665 | 0369 | 0677 | 0777 | 0770 | 0777 | 0773 | 0772 | 0775 | 0773 | 0771 | 0779 | 0775 | 0779 |                      |
| 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 |                      |
| Artery, Inflammation, Chronic Active             |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Oral Mucosa                                      | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Pancreas   | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    |                      |
| Acinus, Hyperplasia                              |             | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Artery, Inflammation, Chronic Active             |             |      |      |      |      | 2    |      |      |      |      |      |      |      |      |      |      |      |      | 1    |      |      |      |      |      |                      |
| Salivary Glands                                  | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | M    | +    | +    | +    |                      |
| Stomach, Forestomach                             | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    |                      |
| Hyperplasia                                      |             | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 1    |      |      |      |      |      |      |                      |
| Pigmentation, Melanin                            |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Stomach, Glandular                               | +           | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | +    | A    | +    | +    | +    |                      |
| Tongue   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Inflammation                                     |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |
| Tooth  |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |

CARDIOVASCULAR SYSTEM

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

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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>FEMALE<br>75 mg/kg | DAY ON TEST | 0719  | 0729  | 0739  | 0762  | 0766  | 0755  | 0766  | 0766  | 0773  | 0766  | 0736  | 0766  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0777  | 0733  | 0777  | 0777  | 0755  | females<br>(cont...) |
|  | ANIMAL ID   | 00251 | 00022 | 00055 | 00025 | 00055 | 00075 | 00028 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 | 00022 |                      |
|  |             | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 0     | 1     | 2     | 3     |                      |

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  
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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>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               |   |   |   |   |   |   |   |   | 3 |   |   |   | 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 | 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  
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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...) |      |      |      |
|--|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|------|
|  | 0719        | 0729 | 0779 | 0779 | 0622 | 0661 | 0551 | 0662 | 0663 | 0773 | 0665 | 0369 | 0665 | 0770 | 0779 | 0770 | 0770 | 0770 | 0770 | 0770 |           |                      | 0373 | 0779 | 0779 |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                    | 0    | 0    |      |
|  | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                    | 0    | 0    |      |
|  | 2           | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2         | 2                    | 2    | 2    |      |
|  | 5           | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 7         | 7                    | 7    | 7    |      |
|  | 1           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1         | 2                    | 3    | 4    | 5    |

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

INTEGUMENTARY SYSTEM

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

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

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

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

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>75 mg/kg</b> | DAY ON TEST | 0719  | 0719  | 0719  | 0719  | 0661  | 0661  | 0551  | 0662  | 0663  | 0673  | 0663  | 0365  | 0667  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0677  | 0371  | 0677  | 0677  | 0575  | 0675  |
|   | 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 |
|   |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |

females (cont...)

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 | 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  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically  
1-4 .. Lesion qualified as:  
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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  | 0665  | 0765  | 0765  | 0765  | 0765  | 0765  | 0765  | 0373  | 0769  | 0769  | 0769  | 0579  | 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     |

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eye Inflammation             | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Harderian Gland Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |

URINARY SYSTEM

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

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>75 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|  | 0729        | 0645  | 0730  | 0733  | 0617  | 0667  | 0733  | 0645  | 0492  | 0611  | 0388  | 0741  | 0442  | 0736  | 0643  | 0706  | 0703  | 0664  | 0335  | 0733  | 0183  | 0733  | 0733  | 0733  |          |
| ANIMAL ID  | 00276       | 00077 | 00008 | 00009 | 00001 | 00002 | 00008 | 00008 | 00008 | 00008 | 00008 | 00008 | 00008 | 00008 | 00008 | 00008 | 00008 | 00008 | 00008 | 00008 | 00008 | 00008 | 00008 | 00008 |          |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |          |
|  | 0           | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |          |
|  | 2           | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 3     |          |
|  | 7           | 7     | 7     | 7     | 8     | 8     | 8     | 8     | 8     | 8     | 8     | 8     | 8     | 8     | 9     | 9     | 9     | 9     | 9     | 9     | 9     | 9     | 9     | 0     |          |
|  | 6           | 7     | 8     | 9     | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 0     |       |          |

**ALIMENTARY SYSTEM**

|                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |       |
|-----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus                   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50    |
| Inflammation                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   | 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     |

\* .. 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 |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|  | 0729        | 0645  | 0730  | 0733  | 0661  | 0667  | 0734  | 0665  | 0449  | 0661  | 0338  | 0442  | 0447  | 0666  | 0443  | 0770  | 0667  | 0663  | 0336  | 0337  | 0178  | 0733  | 0730  |       |          |
|  | 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 |          |
| 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

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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 | 0729  | 0645  | 0730  | 0760  | 0667  | 0763  | 0649  | 0641  | 0637  | 0744  | 0644  | 0770  | 0666  | 0747  | 0677  | 0766  | 0633  | 0771  | 0677  | 0773  | 0677  | * TOTALS |
|  | ANIMAL ID   | 00276 | 00078 | 00009 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 | 00000 |          |
|  |             | 276   | 078   | 009   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   | 000   |          |

ENDOCRINE SYSTEM

|                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |     |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|-----|
| Adrenal Cortex               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |     |
| Degeneration, Cystic         |   | 2 |   |   |   |   | 2 |   | 2 |   |   | 3 |   |   |   |   |   | 2 |   |   |   |   |   |    | 12 | 2.1 |
| Degeneration, Fatty          |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   | 2 |   |   | 3 |   |   |   | 2 | 2 |    | 3  | 2.0 |
| Hyperplasia                  |   |   |   | 1 | 3 |   | 2 |   |   |   |   |   | 2 |   | 2 |   | 3 |   |   |   |   |   |   |    | 11 | 2.0 |
| Inflammation                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1  | 1.0 |
| Thrombosis                   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |   |    | 1  | 2.0 |
| Adrenal Medulla              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |     |
| Hyperplasia                  |   | 2 | 2 | 1 |   | 2 | 3 |   |   |   |   |   |   | 1 |   |   |   |   |   | 1 |   | 3 |   |    | 13 | 1.8 |
| Islets, Pancreatic           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |     |
| Parathyroid Gland            | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |    |     |
| Hyperplasia                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2  | 1.0 |
| Pituitary Gland              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |    |     |
| Pars Distalis, Hyperplasia   |   |   |   |   | 1 | 3 |   | 2 | 1 |   |   |   |   |   |   |   |   |   |   |   |   | 2 | 1 | 2  | 14 | 2.1 |
| Thyroid Gland                | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |    |     |
| C-cell, Hyperplasia          |   | 2 |   |   | 2 |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |    | 5  | 2.0 |
| Follicular Cell, Hypertrophy |   |   |   | 1 |   | 1 | 1 |   |   |   | 1 |   |   |   |   |   | 1 | 1 | 2 |   | 4 |   | 1 | 2  | 23 | 1.7 |

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:

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 |          |          |          |       |
|--|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------|
|  | 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  
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| 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  | 0742  | 0442  | 0736  | 0646  | 0703  | 0766  | 0333  | 0718  | 0773  |          |       | 0773  |       |       |        |  |
| 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 | 00300 |        |  |
| 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     |  |
| Gliososis  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       | 2     | 1 2.0  |  |

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

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

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

Experiment Number: 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 |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------|
|  | 0           | 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           | 6 | 7 | 7 | 6 | 6 | 7 | 6 | 4 | 6 | 3 | 7 | 4 | 4 | 7 | 6 | 4 | 7 | 6 | 3 | 7 | 1 | 7 | 7 | 7 |          |
| ANIMAL ID  | 2           | 4 | 3 | 3 | 1 | 7 | 3 | 4 | 9 | 1 | 8 | 2 | 8 | 2 | 3 | 6 | 6 | 0 | 3 | 6 | 3 | 3 | 8 | 3 | 3 |          |
|  | 9           | 5 | 0 | 0 | 6 | 0 | 0 | 5 | 2 | 1 | 8 | 9 | 1 | 0 | 0 | 9 | 3 | 6 | 0 | 4 | 5 | 0 | 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 | 0 | 0 |          |
|  | 2           | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |          |
|  | 7           | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |          |
|  | 6           | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 0 | 0 |          |

|                                    |   |   |     |
|------------------------------------|---|---|-----|
| Inflammation                       | 2 | 1 | 2.0 |
| Meninges, Pigmentation, Lipofuscin |   | 1 | 1.0 |

|                  |   |   |
|------------------|---|---|
| Peripheral Nerve | + | 2 |
|------------------|---|---|

|             |   |   |     |
|-------------|---|---|-----|
| Spinal Cord | 1 | 1 | 2.0 |
| Hemorrhage  |   | 1 | 2.0 |
| Necrosis    |   | 1 | 2.0 |

**RESPIRATORY SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| Lung  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |     |
| Atelectasis                                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1   |
| Foreign Body                                |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2   |
| Inflammation, Chronic                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 30  |
| Alveolus, Infiltration Cellular, Histiocyte |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2.2 |
| Bronchiole, Hyperplasia                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 16  |
| Mediastinum, Inflammation                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1.5 |
| Pleura, Inflammation, Chronic Active        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3.0 |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 3.0 |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 1   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    | 2.0 |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Nose                                      | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |
| Foreign Body                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2   |
| Inflammation, Chronic Active              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 4   |
| Glands, Olfactory Epithelium, Hyperplasia |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1.8 |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1.0 |

|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| Trachea              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50  |
| Epithelium, Necrosis |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1   |
|                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2.0 |

**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

A .. Autolysis precludes evaluation

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Experiment Number: 20006 - 03

Test Type: CHRONIC

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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>FEMALE<br>75 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|--|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|  | 0729        | 0645  | 0730  | 0730  | 0666  | 0667  | 0766  | 0646  | 0664  | 0636  | 0737  | 0444  | 0674  | 0666  | 0466  | 0770  | 0663  | 0664  | 0633  | 0733  | 0178  | 0773  | 0773  |       |          |
| 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 |          |
| Eye Inflammation                                 | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |
|  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 3     |       | 1 3.0 |          |
| Harderian Gland Inflammation                     | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |
|  |             |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 2.0 |          |
| <b>URINARY SYSTEM</b>                            |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |
| Kidney Nephropathy                               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |
|  | 2           | 3     | 2     |       | 3     | 1     | 3     |       | 2     |       | 1     | 2     | 1     | 1     | 2     | 2     |       | 4     | 2     | 2     |       | 1     | 1     | 3     | 41 2.0   |
| Urinary Bladder                                  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50    |          |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
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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 | 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 |                      |
|   |             | 1234 | 5678 | 9012 | 3456 | 7890 | 1234 | 5678 | 9012 | 3456 | 7890 | 1234 | 5678 | 9012 | 3456 | 7890 | 1234 | 5678 | 9012 | 3456 | 7890 | 1234 | 5678 | 9012 | 3456 | 7890 |                      |

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 |   |   | 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                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + |

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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>FEMALE<br>150 mg/kg | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |      |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|------|------|
|   | 0611        | 0446 | 0677 | 0777 | 0777 | 0575 | 0667 | 0775 | 0777 | 0373 | 0667 | 0677 | 0575 | 0776 | 0666 | 0575 | 0666 | 0575 | 0666 | 0677 |           |                      | 0373 | 0779 |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                    | 0030 |      |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0                    | 0030 |      |
|   | 3           | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3         | 3                    | 0030 |      |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 2    | 2         | 2                    | 0030 |      |
|   | 1           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1         | 2                    | 0030 |      |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Oral Mucosa<br>Hyperplasia, Squamous   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Pancreas<br>Artery, Inflammation, Chronic Active                                       | + | + | + | + | + | + | + | + | 3 | + | + | 1 | + | + | + | + | + | + | 4 | + | + | + | + |
| Salivary Glands  | + | + | + | + | + | + | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + |
| Stomach, Forestomach<br>Hyperplasia  | + | + | + | + | + | + | + | + | 3 | + | + | 2 | + | + | + | + | + | + | 2 | + | + | + | + |
| Stomach, Glandular<br>Erosion<br>Epithelium, Hyperplasia<br>Epithelium, Mineralization | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 3 | + | + | + | + | + | + | + |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2 |
|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 |

CARDIOVASCULAR SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Blood Vessel<br>Degeneration, Focal<br>Inflammation, Chronic Active<br>Thrombosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Heart<br>Cardiomyopathy<br>Pericardium, Inflammation                              | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |
|   | 1 |   | 2 | 1 |   | 1 | 3 | 3 | 1 |   | 1 | 1 |   |   | 2 | 2 |   |   |   |   |   |   | 1 |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

ENDOCRINE SYSTEM

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

\* .. 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>150 mg/kg | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|
|   | 0611        | 0446 | 0667 | 0777 | 0777 | 0777 | 0556 | 0667 | 0775 | 0775 | 0773 | 0773 | 0666 | 0666 | 0777 | 0557 | 0776 | 0666 | 0666 | 0555 | 0666 | 0666 | 0337 | 0337 |           |                      |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0030 | 0030      |                      |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0033 | 0033      |                      |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0030 | 0030      |                      |
|   | 1           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 0031 | 0032      |                      |

Degeneration, Cystic  
Hyperplasia  
Necrosis  
Thrombosis

2 2 2 3 3 3 2 2 2 1 2 3 3  
3 3 3 2 2 2 1 2 1

Adrenal Medulla  
Hyperplasia

+  
1 2 2 2 3 1

Islets, Pancreatic

+ +

Parathyroid Gland

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

Pituitary Gland  
Pars Distalis, Hyperplasia

+  
4 2 3 4 3 4 4 2 4

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

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland  
Cyst

+  
3

Ovary  
Atrophy

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

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

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 150 mg/kg |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females (cont...) |      |      |      |
|-------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|-------------------|------|------|------|
|             | 0611  | 0446 | 0677 | 0777 | 0777 | 0575 | 0666 | 0777 | 0575 | 0777 | 0373 | 0666 | 0777 | 0575 | 0777 | 0666 | 0666 | 0575 | 0666 | 0666 |           |                   | 0373 | 0777 |      |
|             | 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    |
|             | 1   | 6    | 5    | 0    | 0    | 0    | 8    | 9    | 0    | 6    | 0    | 9    | 9    | 8    | 8    | 7    | 6    | 9    | 8    | 5    | 6         | 5                 | 1    | 3    | 9    |
|             | 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 |
|             | 0001  | 0002 | 0003 | 0004 | 0005 | 0006 | 0007 | 0008 | 0009 | 0010 | 0011 | 0012 | 0013 | 0014 | 0015 | 0016 | 0017 | 0018 | 0019 | 0020 | 0021      | 0022              | 0023 | 0024 | 0025 |

Cyst 3 2 2 2 2 2 3 4  
 Inflammation, Acute  
 Necrosis, Fibrinoid 4

Uterus +  
 Cyst 2 3  
 Dilatation 4 3 3 4  
 Inflammation, Acute 1 1  
 Thrombosis  
 Endometrium, Hyperplasia, Cystic 2 1 1 3 3 2 2 2 2 1 1 3 1 2 2  
 Endometrium, Metaplasia, Squamous 1 3 3 1 3 3 2 2 2 1 1 3 1 3 3

HEMATOPOIETIC SYSTEM

Bone Marrow +  
 Atrophy  
 Hyperplasia 1 3 2 3 2 2 1 2 3 3 1 2

Lymph Node + +  
 Inguinal, Hyperplasia, Lymphoid  
 Lumbar, Infiltration Cellular, Histiocyte  
 Mediastinal, Ectasia 3  
 Mediastinal, Hemorrhage 3

Lymph Node, Mandibular + + + + + + + + + M + + + + + + + + + + + + + +

Lymph Node, Mesenteric +  
 Lymphatic, Ectasia 1

Spleen +

\* .. 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>150 mg/kg                      | DAY ON TEST |      | ANIMAL ID |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | females<br>(cont...) |   |   |   |  |
|--|-------------|------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|---|---|---|--|
|  | 0611        | 0465 | 0060      | 0073 | 0073 | 0073 | 0054 | 0063 | 0073 | 0057 | 0073 | 0032 | 0032 | 0068 | 0068 | 0072 | 0059 | 0020 | 0044 | 0022 | 0056 | 0065 | 0066 | 0033 | 0039 | 0032 | 0007 | 0006 | 0003 | 0002 |                      |   |   |   |  |
| Hematopoietic Cell Proliferation                                       | 3           | 2    | 1         | 3    |      | 2    | 3    | 3    | 2    | 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    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3                    | 3 | 3 |   |  |
| 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    | 3    | 1    | 2    | 2    |      |      |      |      |      |      |                      |   |   |   |  |
|  |             |      |           |      |      |      |      |      |      |      |      | 1    |      |      |      |      | 1    |      |      |      |      |      |      |      |      |      |      |      |      |      |                      |   |   |   |  |

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
I .. Insufficient tissue  
M .. Missing tissue  
A .. Autolysis precludes evaluation  
BLANK .. Not examined microscopically  
1-4 .. Lesion qualified as:  
1) Minimal 3) Moderate  
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>150 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|   | 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 | 00330 | 00330 | 00330 | 00330 | 00330 | 00330 | 00330 | 00330 | 00330 | 00330 | 00330 | 00330 | 00330 |          |

|  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| 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 |  |  |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|--|--|

\* .. 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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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>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  | 0737 |     |     |
| ANIMAL ID   | 00326       | 00337 | 00338 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333    | 00333 | 00333 | 00333 |      |     |     |
| Degeneration, Cystic Hyperplasia                  | 1           |       |       |       |       |       |       |       |       |       |       |       |       | 3     |       |       |       | 2     |       |       |          |       |       | 4     | 11   | 2.4 |     |
| Necrosis  |             |       |       | 4     | 1     | 1     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      | 18  | 1.9 |
| Thrombosis  |             |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      | 1   | 2.0 |
| Adrenal Medulla Hyperplasia                       |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      | 50  |     |
| Islets, Pancreatic                                |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      | 11  | 1.9 |
| Parathyroid Gland                                 |             |       |       |       | M     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      | 46  |     |
| Pituitary Gland Pars Distalis, Hyperplasia        |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      | 50  |     |
| Thyroid Gland C-cell, Hyperplasia                 |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      | 18  | 3.3 |
| Follicular Cell, Hyperplasia                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      | 6   | 2.3 |
| Follicular Cell, Hypertrophy                      |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |          |       |       |       |      | 1   | 2.0 |
|   | 3           | 1     | 1     | 2     | 1     | 1     | 2     | 2     | 2     |       |       |       |       | 3     | 1     | 2     |       |       |       |       |          |       |       |       |      | 24  | 1.7 |

**GENERAL BODY SYSTEM**

NONE

**GENITAL SYSTEM**

|                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |    |     |
|---------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|----|-----|
| Clitoral Gland Cyst |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 50 |    |     |
| Ovary Atrophy       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    | 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

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        | 0730  | 0730  | 0732  | 0764  | 0766  | 0766  | 0772  | 0777  | 0775  | 0777  | 0766  | 0711  | 0766  | 0777  | 0777  | 0766  | 0777  | 0711  | 0766  | 0733  | 0766  | 0733  | 0777  |               |          |
| ANIMAL ID   | 00326       | 00327 | 00328 | 00329 | 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 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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+ .. Tissue examined microscopically  
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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>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  | 0737  |          |
| ANIMAL ID   | 00326       | 00337 | 00338 | 00339 | 00344 | 00346 | 00349 | 00350 | 00350 | 00350 | 00350 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 | 00353 |          |
| Bronchiole, Hyperplasia                           |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1     | 1 1.0    |
| Nose  | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | A     | +     | 49       |
| Angiectasis                                       |             |       |       |       |       |       |       |       |       | 2     |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 1 2.0    |
| Foreign Body                                      | X           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | X     |       | 3        |
| Inflammation, Chronic Active                      | 2           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 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

M .. Missing tissue

A .. Autolysis precludes evaluation

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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Experiment Number: 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 | 0622  | 0175  | 0773  | 0735  | 0772  | 0773  | 0663  | 0772  | 0773  | 0173  | 0773  | 0774  | 0667  | 0677  | 0777  | 0777  | 0666  | 0667  | 0777  | 0777  | 0777  | 0777  | 0777  | 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 |                      |

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 | 3 | 3 | 3 | 4 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 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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**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>300 mg/kg | DAY ON TEST |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | ANIMAL ID | females<br>(cont...) |       |      |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------|----------------------|-------|------|
|   | 0622        | 0625 | 0629 | 0630 | 0635 | 0637 | 0637 | 0636 | 0637 | 0637 | 0631 | 0637 | 0637 | 0634 | 0636 | 0637 | 0637 | 0637 | 0636 | 0636 | 0637 | 0637 | 0637 | 0637 |           |                      | 0637  | 0637 |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00351                |       |      |
|   | 0           | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 00333                |       |      |
|   | 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         | 00333                |       |      |
|   | 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         | 00377                |       |      |
|   | 1           | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 5    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4         | 5                    | 00345 |      |

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Mesentery   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Oral Mucosa<br>Hyperplasia, Squamous                                    | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 |   |  |
| Pancreas<br>Acinus, Hyperplasia<br>Artery, Inflammation, Chronic Active | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | 3 |  |
| Salivary Glands   | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |  |
| Stomach, Forestomach<br>Hyperplasia<br>Inflammation                     | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |  |
| Stomach, Glandular  | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |   |   |  |
| Tongue<br>Cyst  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

**CARDIOVASCULAR SYSTEM**

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Blood Vessel<br>Inflammation, Chronic Active        | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 1 | 3 | 1 |   |   |   |   |   |   |   |   |   |  |
| Heart<br>Cardiomyopathy<br>Epicardium, Inflammation | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |  |

**ENDOCRINE 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>300 mg/kg | DAY ON TEST |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | females<br>(cont...) |   |   |   |   |   |   |   |   |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|---|---|---|---|---|---|---|---|
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |                      | 0 | 0 |   |   |   |   |   |   |
|   | 6           | 1 | 7 | 7 | 3 | 7 | 7 | 6 | 7 | 7 | 1 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 6 | 6 |                      | 7 | 7 | 7 |   |   |   |   |   |
| ANIMAL ID   | 2           | 5 | 9 | 0 | 6 | 9 | 0 | 0 | 9 | 0 | 6 | 0 | 9 | 6 | 2 | 9 | 9 | 0 | 1 | 8 | 5                    | 2 | 9 | 0 | 3 | 2 | 9 | 0 |   |
| ANIMAL ID   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                    | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ANIMAL ID   | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3                    | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |
| ANIMAL ID   | 5           | 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 | 6 |   |
| ANIMAL ID   | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1                    | 2 | 3 | 4 | 5 | 6 | 7 | 8 |   |
| Adrenal Cortex                                    | +           | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | +                    | + | + | + | + | + | + | + |   |
| Degeneration, Cystic                              |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |   |   |   |   |   |   |
| Degeneration, Fatty                               |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |   |   |   |   |   |   |
| Hyperplasia                                       | 1           |   | 1 |   |   |   |   | 2 |   | 2 |   |   |   | 1 |   | 2 |   |   |   |   |                      |   |   | 4 | 2 |   | 1 |   |   |
| Inflammation                                      |             |   |   |   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |   |   |   |   |   |   |
| Necrosis  |             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                      |   |   |   |   |   |   |   |   |
| 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  
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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...) |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------------|
|   | 0           | 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           | 1 | 7 | 7 | 3 | 7 | 7 | 6 | 7 | 7 | 1 | 7 | 7 | 4 | 6 | 7 | 7 | 7 | 7 | 6 | 6 | 7 | 7 | 7 | 7 |                      |
| ANIMAL ID   | 2           | 5 | 9 | 0 | 6 | 9 | 0 | 0 | 9 | 0 | 6 | 0 | 9 | 6 | 2 | 9 | 9 | 0 | 1 | 8 | 5 | 9 | 0 | 0 |   |                      |
|   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |   |                      |
|   | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |   |                      |
|   | 5           | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 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 |   |                      |

Inflammation

3

Ovary

Angiectasis

Atrophy

Cyst

Inflammation, Acute

Inflammation, Chronic

Inflammation, Chronic Active

Uterus

Dilatation

Inflammation, Acute

Thrombosis

Endometrium, Hyperplasia, Cystic

Endometrium, Metaplasia, Squamous

Vagina

HEMATOPOIETIC SYSTEM

Bone Marrow

Hyperplasia

Lymph Node

Axillary, Hyperplasia, Lymphoid

Iliac, Infiltration Cellular, Histiocyte

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

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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|  |             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--|-------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| <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 | 26 | 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

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|   |             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |
|---|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>300 mg/kg | DAY ON TEST | 0197 | 0730 | 0592 | 0738 | 0713 | 0773 | 0773 | 0773 | 0562 | 0772 | 0776 | 0777 | 0577 | 0777 | 0777 | 0777 | 0666 | 0666 | 0777 | 0666 | 0777 | 0777 | 0777 | * TOTALS |
|   | ANIMAL ID   | 0037 | 0037 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 | 0038 |          |
|   |             | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    |          |

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 | 38 1.5 |
| Intestine Small, Ileum                       | M | + | + | + | M | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 |        |
| Intestine Small, Jejunum Lymphatic, Ectasia  | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 47 2.5 |
| Liver Angiectasis                            | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | 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    |

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+ .. Tissue examined microscopically  
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Indole-3-carbinol  
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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>300 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
|   | 0197        | 0397  | 0597  | 0797  | 0997  | 1197  | 1397  | 1597  | 1797  | 1997  | 2197  | 2397  | 2597  | 2797  | 2997  | 3197  | 3397  | 3597  | 3797  | 3997  | 4197  | 4397  | 4597  | 4797  |          |
| 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    |

|                                      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |       |
|--------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-------|
| Mesentery                            |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | 1  |       |
| Oral Mucosa<br>Hyperplasia, Squamous | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | 50 | 2 2.0 |
| Pancreas<br>Acinus, Hyperplasia      | M | + | + | + | M | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + |    |       |
| Artery, Inflammation, Chronic Active |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 1 | 4  | 1 3   |
| Salivary Glands                      | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | + | 50 |       |
| Stomach, Forestomach<br>Hyperplasia  | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | M | 49 | 3 2.3 |
| Inflammation                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 2  | 2     |
| Stomach, Glandular                   | + |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | M | 49 | 1 3.0 |
| Tongue<br>Cyst                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3  | 1 3.0 |

**CARDIOVASCULAR SYSTEM**

|  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |    |        |
|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|----|--------|
| Blood Vessel<br>Inflammation, Chronic Active | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | + | 50 | 7 1.9  |
| Heart<br>Cardiomyopathy                      | + |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M | 49 | 24 1.4 |
| Epicardium, Inflammation                     |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3 | 1  | 3.0    |

**ENDOCRINE SYSTEM**

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

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
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| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>300 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |       |       |       |       |      |     |     |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|-------|------|-----|-----|
|   | 0197        | 0390  | 0592  | 0738  | 0174  | 0770  | 0773  | 0773  | 0563  | 0779  | 0779  | 0625  | 0779  | 0773  | 0571  | 0779  | 0773  | 0773  | 0649  | 0664  |          | 0729  | 0665  | 0749  | 0724  | 0775  | 0779  | 0770 |     |     |
| ANIMAL ID   | 00376       | 00337 | 00338 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 | 00333    | 00333 | 00333 | 00333 | 00333 | 00333 | 00333 |      |     |     |
| 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     |       |       |       |          |       |       |       |       |       |       |      | 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 |   |   |   |   |   |   |   | 4  | 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>FEMALE<br>300 mg/kg | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |       |       |        |        |  |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|--------|--------|--|
|   | 0197        | 0390  | 0592  | 0730  | 0834  | 0700  | 0730  | 0733  | 0733  | 0563  | 0729  | 0769  | 0775  | 0777  | 0571  | 0723  | 0733  | 0722  | 0723  | 0644  | 0667  | 0722  | 0644  | 0729  |          | 0769  | 0777  | 0777   |        |  |
| 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 |        |        |  |
| 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        | 2     |       | 30 1.9 |        |  |
| Cyst  |             |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 2     |       | 2     | 1     | 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     |        |  |

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

M .. Missing tissue  
 A .. Autolysis precludes evaluation  
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1-4 .. Lesion qualified as:  
 1) Minimal 3) Moderate  
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Experiment Number: 20006 - 03

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P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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CAS Number: 700-06-1

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Lab: BAT

| HARLAN SPRAGUE DAWLEY RATS<br>FEMALE<br>300 mg/kg       | DAY ON TEST |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       | * TOTALS |    |     |    |     |
|---|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----|-----|----|-----|
|   | 0197        | 0390  | 0592  | 0730  | 0834  | 0730  | 0770  | 0773  | 0533  | 0726  | 0776  | 0779  | 0522  | 0720  | 0733  | 0571  | 0723  | 0733  | 0624  | 0674  | 0722  | 0644  | 0724  | 0772  |          |    |     |    |     |
| 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<br>Lymphatic, Ectasia | M           | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 48       | 1  | 3.0 | 15 | 1.7 |
| Spleen Hematopoietic Cell Proliferation                 | M           | +     | +     | +     | M     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 48       | 33 | 2.2 |    |     |
| Thymus Atrophy Hemorrhage                               | +           | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | +     | 50       | 38 | 2.3 | 1  | 2.0 |

INTEGUMENTARY SYSTEM

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |   |     |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|---|-----|
| Mammary Gland Hyperplasia               | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 7 | 1.4 |   |     |
| Skin Cyst Epithelial Inclusion Fibrosis | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 1.0 | 1 | 1.0 |

MUSCULOSKELETAL SYSTEM

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

NERVOUS SYSTEM

|                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |     |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| Brain Hemorrhage | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | 1 | 2.0 |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|

\* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
+ .. Tissue examined microscopically  
X .. Lesion present  
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1-4 .. Lesion qualified as:  
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