

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

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Indole-3-carbino

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

ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg	DAY ON TEST																									males (cont...)
		0 7 2 7	0 7 2 7	0 6 3 4	0 1 9 7	0 7 2 8	0 4 5 0	0 6 8 9	0 6 3 1	0 6 8 2	0 4 8 3	0 6 8 5	0 5 9 5	0 6 3 5	0 5 7 5	0 7 2 9	0 5 5 5	0 5 7 5	0 6 4 5	0 7 2 0	0 6 8 1					
ANIMAL ID	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 1 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		
Mesentery	+																									+
Artery, Inflammation, Chronic Active																										4
Fat, Necrosis	3																									
Oral Mucosa	+																									
Pancreas	+																									
Acinus, Atrophy																										
Acinus, Hyperplasia	2																									
Artery, Inflammation, Chronic Active	3																									
Salivary Glands	+																									
Stomach, Forestomach	+																									
Hyperplasia	2																									
Inflammation	1																									
Necrosis	3																									
Ulcer	2																									
Stomach, Glandular	1																									
Epithelium, Hyperplasia	1																									
Epithelium, Inflammation, Chronic Active	3																									
Epithelium, Mineralization	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

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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

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

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Dilatation																											3
Inflammation, Chronic Active	2				2	2		2		3		2	3	3	2		1	2		2		2					
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Cardiomyopathy	2	1	2	1	1	3	2	2	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	
Mineralization																											2
Atrium, Thrombosis																											4
Epicardium, Inflammation																											

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Degeneration, Cystic																											2
Degeneration, Fatty																											2
Hyperplasia																											2
Necrosis																											2
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Angiectasis																											1
Hyperplasia	2					4		1	2	3	1		2		1	1	1									1	
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																											2
Parathyroid Gland	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	
Hyperplasia					3																						4
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

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

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

2) Mild 4) Marked

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

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

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

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

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Cecum Necrosis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Intestine Large, Colon Erosion	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
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																										3
Clear Cell Focus	X		X						X	X								X	X	X	X	X	X		14	
Eosinophilic Focus																										10
Hepatodiaphragmatic Nodule																										2
Mixed Cell Focus																										4
Necrosis	3																									3 2.3
Bile Duct, Fibrosis																										2 2.0
Bile Duct, Hyperplasia																										7 1.1
Periportal, Inflammation, Chronic Active																										1 2.0

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

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

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg	DAY ON TEST																									* TOTALS	
		0 7 2 7	0 6 9 3	0 7 2 9	0 6 8 5	0 1 8 8	0 6 8 4	0 0 0 0																			
ANIMAL ID																											
	0 0 0 0																										
Mesentery																											2
Artery, Inflammation, Chronic Active																											1 4.0
Fat, Necrosis																											1 3.0
Oral Mucosa		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Acinus, Atrophy																											1 1.0
Acinus, Hyperplasia		1		2		1																					16 1.4
Artery, Inflammation, Chronic Active		2	2	2	2		2	2	2																		22 2.2
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia			2																								19 1.7
Inflammation																											2 2.0
Necrosis																											1 4.0
Ulcer																											2 1.5
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Epithelium, Hyperplasia																											2 1.0
Epithelium, Inflammation, Chronic Active																											3 1.0
Epithelium, Mineralization																											7 2.4
Epithelium, Necrosis																											1 1.0
Tooth																											1
Necrosis																											1 3.0

CARDIOVASCULAR SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg	DAY ON TEST																										* TOTALS
		0 7	0 6	0 7	0 7	0 6	0 6	0 1	0 6	0 7	0 7	0 4	0 7	0 7	0 7	0 7	0 5	0 7	0 7	0 7	0 4	0 4	0 4	0 4	0 4		
ANIMAL ID	2 7	2 9	2 2	2 8	8 5	4 8	8 9	6 8	2 8	2 1	2 7	2 8	2 8	2 6	2 9	2 7	2 9	2 8	2 6	2 9	2 5	2 8	2 5	2 4	2 4		

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Dilatation																											1 3.0
Inflammation, Chronic Active	2	2	3	2	2			2	1	2		2	1		2		2	1		2	2	2	2			30 2.0	
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	3	3		47 2.4	
Mineralization																											1 2.0
Atrium, Thrombosis																											1 4.0
Epicardium, Inflammation																											1 2.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Degeneration, Cystic		2		2																							4 2.0
Degeneration, Fatty		2																									8 2.0
Hyperplasia																											14 2.3
Necrosis																											1 1.0
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Angiectasis		3			2			2			3		1	1	4	2	1	1								1 2.0	
Hyperplasia																											18 2.2
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia																											3 2.0
Parathyroid Gland	+	+	+	M	+	+	+	M	M	+	+	+	+	+	+	+	M	+	+	+	+	+	M	+	43		
Hyperplasia																											3 3.0
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg	DAY ON TEST																									* TOTALS		
		0 7 2 7	0 6 9 3	0 7 2 9	0 6 8 5	0 1 8 8	0 6 9 8	0 7 2 1	0 7 2 7	0 7 2 8	0 7 2 8	0 7 2 6	0 7 2 9	0 7 2 9	0 7 2 8	0 7 2 6												
ANIMAL ID																												
	0 0 0 0 2 6	0 0 0 0 2 7	0 0 0 0 2 8	0 0 0 0 3																								
Pars Distalis, Hyperplasia		2		4		2	1	1		4																3	17 2.0	
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Thrombosis																											2	1 2.0
C-cell, Hyperplasia																											6	6 2.2
Follicular Cell, Hypertrophy																											21	21 1.8

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Indole-3-carbino

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg		ANIMAL ID	DAY ON TEST																							
			0 7 2 7	0 6 9 3	0 7 2 9	0 6 8 7	0 6 8 5	0 6 8 4	0 1 8 8	0 6 9 8	0 7 2 8	0 7 2 8	0 4 2 1	0 7 2 7	0 7 2 8	0 7 2 8	0 7 2 8	0 7 2 6	0 7 2 9	0 7 2 7	0 5 3 9	0 7 2 8	0 7 2 6	0 4 8 5	0 4 4 4	
Atrophy	1	1	2	3	2				3	1	3		2		2	4	4	2	1	1		1	2	4	30 2.1	
Artery, Inflammation, Chronic Active	3	2	3	3	2				3	1	2		2		2	2	1	1		1	1		1	3	4	1 1.0
Interstitial Cell, Hyperplasia																			1					28 2.3		

HEMATOPOIETIC SYSTEM

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

INTEGUMENTARY SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Indole-3-carbino

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

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 0 mg/kg		DAY ON TEST																											
			0 7 2 7	0 6 9 3	0 7 2 9	0 6 8 5	0 1 8 8	0 6 9 9	0 7 8 8	0 7 2 1	0 4 2 7	0 7 2 8	0 7 2 8	0 7 1 6	0 7 2 9	0 5 3 9	0 7 2 8	0 7 2 6	0 7 2 9	0 4 8 5	0 4 4 4								
ANIMAL ID		0 0 0 2 6	0 0 0 2 7	0 0 0 2 8	0 0 0 2 9	0 0 0 3 0	0 0 0 3 1	0 0 0 3 2	0 0 0 3 3	0 0 0 3 4	0 0 0 3 5	0 0 0 3 6	0 0 0 3 7	0 0 0 3 8	0 0 0 3 9	0 0 0 4 0	0 0 0 4 1	0 0 0 4 2	0 0 0 4 3	0 0 0 4 4	0 0 0 4 5	0 0 0 4 6	0 0 0 4 7	0 0 0 4 8	0 0 0 4 9	* TOTALS			
Inflammation, Chronic Active		1		1		2		2		2		2		2		1		11		1.5									
Respiratory Epithelium, Hyperplasia				2				2										2		2.0									
Trachea		+		+		+		+		+		+		+		+		+		+		+		50					
Inflammation																								1		2.0			
SPECIAL SENSES SYSTEM																													
Eye		+		+		+		+		+		+		+		+		+		+		+		+		50			
Anterior Chamber, Inflammation, Acute																										2		1.0	
Cornea, Inflammation, Acute		1		2		3		1		2		2		1		2		2		3						20		2.1	
Harderian Gland		+		+		+		+		+		+		+		+		+		+		+		+		50			
Pigmentation, Porphyrin																										1		3.0	
Lacrimal Gland																										1			
Degeneration																										1		2.0	

URINARY SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient 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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Indole-3-carbino

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

ALIMENTARY SYSTEM

Esophagus
Inflammation
Epithelium, Hyperplasia

Intestine Large, Cecum
Hyperplasia, Lymphoid
Necrosis

Intestine Large, Colon

Intestine Large, Rectum

Intestine Small, Duodenum

Intestine Small, Ileum

Intestine Small, Jejunum
Lymphatic, Ectasia

Liver
Cholangiofibrosis
Clear Cell Focus
Eosinophilic Focus
Mixed Cell Focus
Necrosis
Artery, Inflammation
Bile Duct, Hyperplasia

* .. 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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Indole-3-carbino

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

INTEGUMENTARY SYSTEM

Mammary Gland

* .. Total animals with tissue examined

M Missing tissue

+ .. Tissue examine

M .. Missing tissue

X .. Lesion present

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

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

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

Cyst Epithelial Inclusion

Inflammation

Necrosis

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

Spinal Cord + +

RESPIRATORY SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X.. Lesion present

A.. Autolysis precludes evaluation

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

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 75 mg/kg	DAY ON TEST	ANIMAL ID	Data Rows																							
			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	7	7	7	4	6	4	5	0	6	5	3	5	1	0	7	4	6	6	5	0
3	1	2	1	2	2	2	9	8	8	8	6	6	5	5	5	5	3	3	1	7	2	8	9	1	2	5
7	7	7	3	6	7	7	9	8	8	8	6	6	5	5	5	5	3	3	1	7	2	8	9	1	2	5
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	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
7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	0
6	7	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	9	0

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	+	+	+	39		
Lymphatic, Ectasia																				2	1	1.0
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cholangiofibrosis																				2	1	2.0
Clear Cell Focus	X	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	1.0
Bile Duct, Hyperplasia																				1	4	1.0

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient 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

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

HARLAN SPRAGUE DAWLEY RATS MALE 75 mg/kg	DAY ON TEST ANIMAL ID	* TOTALS																								
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mesentery																										2
Artery, Mineralization																										1 2.0
Oral Mucosa		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Foreign Body																										1
Hyperplasia, Squamous																										1 2.0
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Thrombosis																										1 3.0
Acinus, Atrophy																										1 1.0
Acinus, Hyperplasia		3			1																					10 1.3
Artery, Inflammation, Chronic Active		2	1	1	3	3	1	3	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	32 1.8
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Metaplasia																										1 2.0
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia						2	1	1	2	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19 1.7
Ulcer																										1 3.0
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Epithelium, Hyperplasia						3			2			2			2											5 2.0
Epithelium, Inflammation																										1 3.0
Epithelium, Inflammation, Chronic Active		2																								4 2.0
Epithelium, Mineralization		3																								12 2.5
Epithelium, Ulcer																										1 1.0
Epithelium, Muscularis, Hyperplasia, Focal																										1 2.0

CARDIOVASCULAR SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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

HARLAN SPRAGUE DAWLEY RATS MALE 75 mg/kg	DAY ON TEST ANIMAL ID	* TOTALS																								
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		6	6	6	5	7	7	7	4	6	4	5	6	5	6	5	6	5	7	4	6	6	5	6	7	6
		3	1	2	1	2	2	2	4	1	5	0	5	5	3	5	5	9	2	8	6	7	8	5	2	1
		7	7	3	6	7	9	8	8	6	6	5	5	5	3	1	7	8	9	1	9	9	2	7	4	8
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	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	8	9	9	9	9	9	9	9	9	9	0
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	A	+	+	+	+
C-cell, Hyperplasia	2																									
Follicular Cell, Hyperplasia																										
Follicular Cell, Hypertrophy	3	2	1	1	1	2																				

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy																										
Fibrosis																										
Hyperplasia																										
Inflammation, Acute	1	1																								
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy	2	2	1	1	2	2	2	3	3	2	4															37 2.0
Artery, Inflammation, Chronic Active	2	3	2	2	3	3	4	3	2	2	1	2	2	1	1	1	1	1	1	1	1	3	2	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

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

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

75 mg/kg

ANIMAL ID

INTEGUMENTARY SYSTEM

Mammary Gland

* Total animals with tissue examined

usion and mean sever

+ .. Tissue examine

M .. Missing tissue

X .. Lesion present

BLANK Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Indole-3-carbino

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

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

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

ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

CARDIOVASCULAR SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 150 mg/kg		DAY ON TEST	ANIMAL ID																								males (cont...)					
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
6	7	5	7	0	7	5	0	6	5	0	6	7	0	7	7	4	0	7	7	0	7	6	0	7	4	0	7	3	0	5	7	
9	2	8	0	2	0	5	5	0	5	0	2	4	3	2	7	2	8	2	2	7	2	7	6	1	2	2	7	6	7	0	7	0
3	8	7	9	7	0	7	0	7	4	3	4	3	7	7	6	9	6	9	7	9	7	6	9	3	2	7	7	0	6	6	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	6	7	8	9	0	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

M .. Missing tissue

X .. Lesion present

I .. Insufficient 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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Indole-3-carbino

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

DAY ON TEST																				
	0 6 9 3	0 7 2 8	0 5 8 7	0 7 0 9	0 5 5 7	0 9 4 0	0 0 3 7	0 6 2 4	0 1 3 7	0 7 2 7	0 7 2 7	0 8 6 6	0 2 9 9	0 7 2 7	0 7 2 7	0 6 1 6	0 2 9 9	0 4 2 3	0 7 2 7	0 3 7 7
HARLAN SPRAGUE DAWLEY RATS MALE 150 mg/kg																				males (cont...)
ANIMAL ID	0 0 1 0 1	0 0 1 0 0	0 0 1 0 1																	

HEMATOPOIETIC SYSTEM

Lymph Node	+	+	+	
Bronchial, Hemorrhage			3	
Iliac, Infiltration Cellular, Histiocyte				
Lumbar, Hemorrhage			3	
Mediastinal, Ectasia				
Mediastinal, Hemorrhage	3	3		

Spleen +
 Hematopoietic Cell Proliferation 3 2 1 1 2 2 2 3 1 1 1 2 2 + 2 3 3 1
 Necrosis

INTEGUMENTARY SYSTEM

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

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																					
		150 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
6	7	5	7	5	7	5	6	5	5	6	7	7	7	4	7	7	7	7	7	7	6	7	7
9	2	8	0	2	0	5	9	0	2	4	1	2	7	8	2	2	7	0	2	2	1	2	2
3	3	8	7	9	7	0	7	4	3	4	3	7	7	6	9	7	7	9	7	6	9	3	7
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2
1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4

Fibrosis

2

Skin
Cyst Epithelial Inclusion

**males
(cont...)**

MUSCULOSKELETAL SYSTEM

Bone
Fibrous Osteodystrophy
Maxilla, Fracture

NERVOUS SYSTEM

RESPIRATORY SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

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

ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate
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

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

CARDIOVASCULAR SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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

HARLAN SPRAGUE DAWLEY RATS MALE 150 mg/kg	DAY ON TEST																											* TOTALS	
		0 7 2 9	0 7 2 9	0 4 8 2	0 5 9 3	0 5 2 8	0 6 3 3	0 4 9 9	0 7 2 9	0 6 6 0	0 6 6 4	0 4 6 8	0 5 4 7	0 6 9 7	0 5 4 9	0 7 2 7	0 7 1 1	0 7 2 7	0 5 1 1	0 6 6 6	0 7 1 2	0 6 1 2	0 7 2 7	0 7 2 7					
ANIMAL ID		0 0 1 2 6	0 0 1 2 7	0 0 1 3 0	0 0 1 3 1	0 0 1 3 2	0 0 1 3 3	0 0 1 3 4	0 0 1 3 5	0 0 1 3 6	0 0 1 3 7	0 0 1 3 8	0 0 1 3 9	0 0 1 4 0	0 0 1 4 1	0 0 1 4 2	0 0 1 4 3	0 0 1 4 4	0 0 1 4 5	0 0 1 4 6	0 0 1 4 7	0 0 1 4 8	0 0 1 4 9						
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation, Chronic Active		2	2						3	2	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	3	2	2	3	3	3	3	49	2.5	
Atrium, Thrombosis																												3	3.3
Pericardium, Inflammation																												1	3.0

ENDOCRINE SYSTEM

Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Degeneration, Cystic										2																	5	1.8	
Degeneration, Fatty											2																5	1.6	
Hematopoietic Cell Proliferation																												1	2.0
Hemorrhage																												1	3.0
Hyperplasia		1																										19	2.1
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Hyperplasia									2	2																	20	1.9	
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Hyperplasia											3																1	2.0	
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50			
Hyperplasia									1	2																	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:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 150 mg/kg		DAY ON TEST																										
			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		
7	7	4	5	7	5	5	6	4	7	6	6	4	5	6	5	7	7	7	5	6	7	6	7	6	7	7		
2	2	8	9	2	5	8	3	2	9	2	9	4	8	6	7	2	7	1	2	3	6	1	2	1	2	7		
9	9	2	3	8	8	3	3	9	9	0	4	8	6	7	9	7	1	7	7	1	6	2	1	7	7			
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	4	5		
6	7	8	9	0	1	2	3	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0		
* TOTALS																												
Pars Distalis, Hyperplasia			2	2	1	2				1	3										3	2	2		1	1	19	2.0
Thyroid Gland			+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	A	+	+	+	+	+	48	4 2.8	
C-cell, Hyperplasia							3																					
Follicular Cell, Hypertrophy			2	2	2	3	3	1	2	1	2		2	1	3	3	2	3	3	3	2	2	2	2	2	33	2.1	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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																									* 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	
HARLAN SPRAGUE DAWLEY RATS MALE	7	7	4	5	7	5	5	6	4	7	6	6	4	5	6	5	7	7	7	5	6	7	6	7	7	7
150 mg/kg	2	2	8	9	2	5	8	2	9	2	9	6	6	4	5	6	5	7	7	2	3	6	6	1	2	2
ANIMAL ID	9	9	2	3	8	8	3	3	9	9	0	4	8	6	7	9	7	7	1	2	7	1	2	7	7	7
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	5
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	0

HEMATOPOIETIC SYSTEM

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

INTEGUMENTARY SYSTEM

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

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

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

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

DAY ON TEST																				
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HARLAN SPRAGUE DAWLEY RATS MALE	7	7	4	5	7	5	5	6	4	7	6	6	4	5	6	5	7	7	5	6
150 mg/kg	2	2	8	9	2	5	8	3	2	9	2	9	4	6	9	4	7	2	3	6
	9	9	2	3	8	8	3	3	9	9	0	4	8	6	9	7	1	7	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
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4
	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5

*** TOTALS**

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

URINARY SYSTEM

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

+ Tissue examined microscopically

M Missing tissue

1-4 Lesion qualified as:

X Lesion present

A Autolysis precludes evaluation

Lesion qualified as:

✓ .. Lesion present

ANK Not examined microscopically

2) Mild 4) Marked

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

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

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

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

ALIMENTARY SYSTEM

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

* .. 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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

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

CARDIOVASCULAR SYSTEM

Blood Vessel

* .. Total animals with tissue examined

M Missing tissue

+ .. Tissue examine

M .. Missing tissue

X .. Lesion present

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

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

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

ENDOCRINE SYSTEM

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

.. Total animals with tissue examined
+ .. Tissue examined microscopically

M Missing tissue

X Lesion present

X .. Lesion present
I .. Insufficient tissue

A Autolysis precludes evaluation

BLANK - Not examined microscopically

BLANK .. Not examined microscopically

1-4 Lesion qualified as:

Lesion qualified as:

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

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

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

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

HARLAN SPRAGUE DAWLEY RATS MALE 300 mg/kg	DAY ON TEST ANIMAL ID	* TOTALS																							
		0 4 6 2	0 7 1 7	0 7 2 0	0 1 5 8	0 2 1 1	0 6 2 2	0 7 2 0	0 6 4 5	0 5 1 9	0 7 2 9	0 6 6 1	0 4 1 6	0 5 3 4	0 7 9 1	0 6 1 2	0 5 3 2	0 7 2 7	0 6 2 1	0 5 3 1	0 7 2 1	0 6 2 1	0 5 3 1		
		0 0 1 7 6 7	0 0 1 1 7 8	0 0 1 8 8 9	0 0 1 8 8 0	0 0 1 2 3	0 0 1 4 5	0 0 1 6 7	0 0 1 8 8 9	0 0 1 1 1 0	0 0 1 1 1 1														

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Fibrosis																								1 1.0		
Intestine Small, Duodenum	+	+	+	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	48		
Lymphatic, Ectasia						1		3					1												14 1.4	
Intestine Small, Ileum	+	+	A	+	+	A	+	+	+	+	+	+	A	+	+	+	+	+	A	+	+	A	A	38		
Intestine Small, Jejunum	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	42		
Lymphatic, Ectasia	1	1	1	4	2	2	3	1	1	1	2	2	1	1	3	1	2	1	3	2	2	2	1	41 2.0		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Basophilic Focus																								X 1		
Cholangiofibrosis																								1 2.0		
Clear Cell Focus							X 2									X X									9	
Eosinophilic Focus							X									X									6	
Hepatodiaphragmatic Nodule																	X									1
Mixed Cell Focus																										2
Necrosis	3						2																			7 2.3
Bile Duct, Cyst							2																			5 2.4
Bile Duct, Fibrosis								1																		1 1.0
Bile Duct, Hyperplasia								1																		3 1.0

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

CARDIOVASCULAR SYSTEM

Blood Vessel

* .. Total anima

+ .. Tissue examined

X .. Lesion present

| .. Insufficient tissue

* .. Total animals with tissue examin

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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

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

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

HARLAN SPRAGUE DAWLEY RATS MALE 300 mg/kg	DAY ON TEST ANIMAL ID	* TOTALS																								
		0 4 6 2	0 7 2 7	0 7 1 0	0 1 2 7	0 5 0 8	0 2 2 1	0 7 2 9	0 7 2 9	0 6 4 5	0 1 9 5	0 7 2 9	0 6 6 1	0 4 9 6	0 5 3 4	0 1 9 9	0 7 1 2	0 5 3 2	0 7 2 1	0 6 2 1	0 5 2 1	0 7 2 1	0 6 3 1			
Inflammation, Chronic Active		1	2	2			2	2	2	2	3		2		2	2	2	3	2	2	2	2	2	2	29	1.9
Mineralization																									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	48	2.4
Mineralization																									1	3.0
Atrium, Thrombosis																									3	3.3
ENDOCRINE SYSTEM																										
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																									1	3.0
Degeneration, Cystic																									4	2.0
Degeneration, Fatty																									2	1.8
Hyperplasia																									6	2.0
Necrosis																									2	1.5
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia																									19	1.5
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia																									3	2.0
Parathyroid Gland		+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47		
Hyperplasia																									8	2.5
Pituitary Gland		+	+	+	+	+	I	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47		
Pars Distalis, Hyperplasia																									12	1.8
Thyroid Gland		+	+	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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

HARLAN SPRAGUE DAWLEY RATS MALE 300 mg/kg		ANIMAL ID	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		
4	7	7	7	7	1	2	6	7	7	7	7	6	5	7	7	7	6	6	4	5	3	1	2	0	
6	2	1	2	9	5	1	2	2	2	2	9	4	1	0	6	2	9	1	6	9	3	4	2	7	
2	7	0	7	0	8	1	1	2	2	0	9	5	9	6	9	1	1	1	6	4	3	1	2	1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	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	8	9	9	0	1	2	3	4	5	6	7	8	
C-cell, Hyperplasia																									5 3.2
C-cell, Hypertrophy																									1 2.0
Follicular Cell, Hypertrophy																									36 2.6
			2		2	3	3	2	3	3	2	4			2	4	2	3	2	3	1	4			

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient 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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

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

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia							2		2														3 2.0
Lymph Node	+									+												6	
Angiectasis										2													1 2.0
Mediastinal, Hemorrhage																							1 2.0
Mediastinal, Infiltration Cellular, Lipocyte																							1 3.0
Mediastinal, Pigmentation, Hemosiderin																							1 3.0
Pancreatic, Hemorrhage																							1 3.0
Renal, Pigmentation, Hemosiderin																							1 3.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Ectasia																							1 3.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia, Lymphoid																							1 2.0
Lymphatic, Ectasia										2	1											2	5 1.4
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																							1 3.0
Hematopoietic Cell Proliferation										2	1	2		2	2	1	2	2	2	2	2	29	2.0
Thymus	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	M	+	+
Atrophy									3	1	1	1	1	1	4	2	2	3	3	2	2	47	41 2.5

INTEGUMENTARY SYSTEM

50

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient 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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Indole-3-carbino

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

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient 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

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	HARLAN SPRAGUE DAWLEY RATS MALE																										* 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	0			
300 mg/kg	ANIMAL ID	4	7	7	7	1	2	6	7	7	7	2	4	5	1	0	7	7	6	4	5	1	0	6	5	7	6	5	* TOTALS	
		6	2	7	1	2	9	5	1	2	2	9	2	4	1	9	6	2	9	1	6	4	3	1	9	2	7	1		
Nose		0	0	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		
Foreign Body																												X	10	
Inflammation, Chronic Active																													2	15 1.5
Respiratory Epithelium, Hyperplasia																													3	7 1.7
Trachea		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
SPECIAL SENSES SYSTEM																														
Eye		+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49		
Cataract																														1 2.0
Anterior Chamber, Inflammation, Acute																														2 3 2.0
Cornea, Inflammation, Acute																														21 1.9
Retina, Fibrosis																														1 3.0
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Angiectasis																														1 2.0
URINARY SYSTEM																														
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Cyst																														1 2.0
Nephropathy		4	3	3	3	2	2	4	3	3	3	3	4	3	3	3	3	4	3	4	4	4	4	3	3	4	4	50	3.4	
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hemorrhage																														1 2.0
Inflammation																														1 1.0

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Indole-3-carbinol

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

*** END OF MALE DATA ***

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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 FEMALE 0 mg/kg	DAY ON TEST																								
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	5	7	7	7	6	7	6	6	7	7	6	7	7	7	6	6	3	7	7	7	7	7	7	5	4
	0	3	2	2	1	2	4	4	3	1	8	3	2	3	2	3	4	7	3	2	9	1	3	2	2
	9	0	9	9	4	9	5	2	0	9	1	0	9	2	9	0	2	3	0	9	1	9	0	8	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
	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

females
(cont...)

ALIMENTARY SYSTEM

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

* .. 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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

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

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 M .. Missing tissue
 X .. Lesion present A .. Autolysis precludes evaluation
 I .. Insufficient tissue BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Indole-3-carbino

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland
Cyst
Inflammation

* .. Total animals with tissue examine

M .. Missing tissue

X .. Lesion present

I .. Insufficient tissue

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

HARLAN SPRAGUE DAWLEY RATS FEMALE 0 mg/kg	DAY ON TEST																									females (cont...)
		0 5 0 9	0 7 2 0	0 7 2 9	0 6 4 5	0 6 4 2	0 7 1 0	0 7 1 9	0 7 2 1	0 7 2 9	0 7 3 0	0 6 3 2	0 6 4 2	0 7 3 0	0 7 2 9	0 7 1 9	0 7 1 9	0 7 1 9	0 7 1 9	0 7 1 9	0 5 3 8	0 4 2 2				
ANIMAL ID		0 0 2 0 1 1	0 0 2 0 0 2	0 0 2 2 0 5	0 0 2 2 0 6	0 0 2 2 0 7	0 0 2 2 0 8	0 0 2 2 0 9	0 0 2 2 1 0	0 0 2 2 1 1	0 0 2 2 1 2	0 0 2 2 1 3	0 0 2 2 1 4	0 0 2 2 1 5	0 0 2 2 1 6	0 0 2 2 1 7	0 0 2 2 1 8	0 0 2 2 1 9	0 0 2 2 1 0	0 0 2 2 1 1	0 0 2 2 1 2	0 0 2 2 1 3	0 0 2 2 1 4	0 0 2 2 1 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			2	1	2	1	1	1		
Inflammation, Chronic Active					2		2																			
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Dilatation							3											4	3	1	3					2
Inflammation, Histiocytic, Focal																		1								
Inflammation, Acute																		1								
Endometrium, Hyperplasia, Cystic																		1								2
Endometrium, Metaplasia, Squamous																		1								1
Vagina																		+								

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia	3				3			3		2						2	2	3	3	3	3	3	3	3	3	3
Lymph Node																		+								+
Inguinal, Hyperplasia, Lymphoid																		+								
Lumbar, Hemorrhage																		3								3
Lumbar, Hyperplasia, Lymphoid																		1								
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

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

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

Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hematopoietic Cell Proliferation	3	2	2	3	2	3	4	2	2	2	3	2	2	3	3	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	2	2	2	2	2	1	2	2	1		
Epithelial Cell, Hyperplasia															3												

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Galactocele																											
Hyperplasia																											
Inflammation																											
Inflammation, Chronic																											
Duct, Dilatation																											

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	M .. Missing tissue																										
X .. Lesion present	A .. Autolysis precludes evaluation																										
I .. Insufficient tissue	BLANK .. Not examined microscopically																										

1-4 .. Lesion qualified as:

- 1) Minimal 3) Moderate

- 2) Mild 4) Marked

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

DE WIT 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

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

GAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab BAT

DAY ON TEST																							
HARLAN SPRAGUE DAWLEY RATS FEMALE 0 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
	6	6	4	7	5	7	2	9	1	7	2	8	9	7	8	8	5	4	6	7	2	9	5
	8	1	8	3	5	8	0	8	1	7	2	9	0	7	8	8	5	4	6	7	2	9	3
	8	8	1	8	3	5	8	0	8	1	7	2	9	0	7	8	5	4	6	7	2	9	3
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	2	2	2	2	2	2	3	3	3	3	3	3	3	4	5	6	7	8	9	0	1	2	3
2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	5	6	7	8	9	0	1	2	3
6	7	8	9	0	1	2	3	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8

ALIMENTARY SYSTEM

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

± .. Tissue examined microscopically

M .. Missing tissue

X - Lesion present

A. Autolysis precludes evaluation

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

HARLAN SPRAGUE DAWLEY RATS FEMALE 0 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	0		
ANIMAL ID	6	6	4	7	5	7	6	4	3	6	2	5	4	6	7	7	5	7	6	7	6	7	5	6	7	5	6	5	* TOTALS
	8	8	1	8	3	5	2	2	1	2	8	5	4	4	3	2	3	2	9	0	2	9	0	2	9	3	0	6	
	8	8	1	8	0	8	9	9	7	5	9	7	8	8	2	6	5	0	5	0	7	5	0	2	9	0	5	3	* TOTALS
Acinus, Hyperplasia																												1 2.0	
Artery, Inflammation, Chronic Active																												1 3.0	
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	50	
Inflammation		2																										1 2.0	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	50	
Hyperplasia		3																										2 2.0	
Inflammation																												1 1.0	
Ulcer																												1 2.0	
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	50	
Ulcer		2																										1 2.0	
Epithelium, Hyperplasia																												1 2.0	
Tongue		+																										1	1
Erosion		3																										1 3.0	
CARDIOVASCULAR SYSTEM																												50	
Blood Vessel		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Inflammation, Chronic Active																												1 3.0	50
Heart		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
Cardiomyopathy		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	24 1.2	50
Epicardium, Inflammation																												1 2.0	
ENDOCRINE SYSTEM																												50	
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Degeneration, Cystic		1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	16 2.3	50	

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Indole-3-carbino

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient tissue

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

HARLAN SPRAGUE DAWLEY RATS FEMALE 0 mg/kg	DAY ON TEST																									* TOTALS
		0 6 8 8	0 6 1 1	0 4 8 8	0 7 3 0	0 5 5 8	0 7 2 9	0 6 2 9	0 4 2 5	0 3 8 9	0 6 8 7	0 5 2 0	0 4 4 6	0 6 4 5	0 7 3 0	0 7 2 9	0 7 3 0	0 5 2 9	0 7 3 0	0 6 2 9	0 7 3 0	0 6 5 6	0 5 1 3			
ANIMAL ID		0 0 0 0	0 0 0 0	0 0 2 2																						
Atrophy		2	1	2	3	1	1	1	3	3	1	3	2	1	1	2	3	4	4	3	1	2	0	40	2.0	
Cyst				1	2	4																		17	2.0	
Inflammation, Chronic Active																									1	2.0
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Dilatation																									9	2.6
Inflammation, Histiocytic, Focal																									1	1.0
Inflammation, Acute																									5	1.2
Endometrium, Hyperplasia, Cystic		1																							29	1.8
Endometrium, Metaplasia, Squamous		1	1	1																					1	1.9
Vagina																									+	2
HEMATOPOIETIC SYSTEM																										
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia		2	2			1	3	2	2	2	2	3		3		3		3		2	2	1	3		21	2.4
Lymph Node																									+	7
Inguinal, Hyperplasia, Lymphoid																									3	3.0
Lumbar, Hemorrhage																									2	3.0
Lumbar, Hyperplasia, Lymphoid																									3	3.0
Mediastinal, Hemorrhage																									2	3.5
Mediastinal, Infiltration Cellular, Histiocyte																									2	2.0
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pigmentation, Hemosiderin																									1	2.0

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Indole-3-carbino

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 FEMALE 0 mg/kg	ANIMAL ID	DAY ON TEST																		* TOTALS						
		0 6 8 8	0 6 1 1	0 4 8 8	0 7 3 0	0 5 5 8	0 7 2 0	0 6 1 7	0 4 2 5	0 3 8 9	0 6 0 7	0 2 8 8	0 5 2 2	0 4 4 6	0 6 4 5	0 7 3 0	0 7 2 9	0 7 3 0	0 5 2 9	0 7 3 0	0 6 9 5	0 7 3 0	0 6 5 6	0 5 1 3		
		0 0 2 2 6	0 0 2 2 7	0 0 2 2 8	0 0 2 2 9	0 0 2 3 0	0 0 2 3 1	0 0 2 3 2	0 0 2 3 3	0 0 2 3 4	0 0 2 3 5	0 0 2 3 6	0 0 2 3 7	0 0 2 3 8	0 0 2 3 9	0 0 2 4 0	0 0 2 4 1	0 0 2 4 2	0 0 2 4 3	0 0 2 4 4	0 0 2 4 5	0 0 2 4 6	0 0 2 4 7	0 0 2 4 8	0 0 2 4 9	0 0 2 5 0

* TOTALS

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

Skeletal Muscle + 1

NERVOUS SYSTEM

RESPIRATORY SYSTEM

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

1-4 .. Lesion qualified as:

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

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

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

+ .. Tissue examined microscopically

M .. Missing tissue

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Indole-3-carbino

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 FEMALE 75 mg/kg	DAY ON TEST																					females (cont...)
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	7	7	7	6	6	5	6	6	7	6	3	6	7	6	7	7	7	7	7	7	0
	1	2	1	3	2	2	1	1	2	3	3	3	5	9	5	0	0	1	0	1	1	0
	9	9	9	0	2	2	1	1	2	3	3	3	5	9	5	0	0	1	0	1	1	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	2	2	2	2	2	2	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
	5	5	5	5	4	5	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2

ENDOCRINE SYSTEM

GENERAL BODY SYSTEM

NONE

GFNITAI SYSTEM

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

1-4 ... Lesion qualified as:

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

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

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

HEMATOPOIETIC SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient 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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

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

± .. Tissue examined microscopically

M .. Missing tissue

X., Lesion present

I .. Insufficient 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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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

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

females
(cont...)

Eye
Inflammation

Harderian Gland
Inflammation

URINARY SYSTEM

Kidney Nephropathy

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

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

ALIMENTARY SYSTEM

Esophagus Inflammation	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	2	2.0
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Intestine Small, Duodenum	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47		
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	47		
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	46		
Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Basophilic Focus																							6		
Cholangiofibrosis	X																						1	1.0	
Clear Cell Focus																							7		
Eosinophilic Focus																							4		
Mixed Cell Focus																							1		
Necrosis																							2	3.5	
Thrombosis																							1	2.0	
Bile Duct, Cyst																							2	1.20	
Bile Duct, Cyst, Multiple																							2	1.20	
Centrilobular, Degeneration																							1	3.0	
Mesentery	+																						2		

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient 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

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

HARLAN SPRAGUE DAWLEY RATS FEMALE 75 mg/kg	DAY ON TEST ANIMAL ID	* TOTALS																								
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Artery, Inflammation, Chronic Active		3																								1 3.0
Oral Mucosa		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Acinus, Hyperplasia																										3 1.3
Artery, Inflammation, Chronic Active																										4 1.5
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia																										5 2.4
Pigmentation, Melanin																										1 2.0
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Tongue		+																								1
Inflammation																										1 3.0
Tooth																										1

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation, Chronic Active																										3 1.3
Heart	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cardiomyopathy																										24 1.7
Atrium, Thrombosis																										1 4.0
Epicardium, Inflammation																										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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

CAS Number: 700-06-1

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

DAY ON TEST																								
	0 7 2 9	0 6 4 5	0 7 3 0	0 6 1 6	0 7 0 0	0 6 5 0	0 4 2 5	0 3 1 1	0 8 8 8	0 2 9 9	0 4 8 1	0 4 2 0	0 4 3 0	0 7 3 9	0 6 6 3	0 7 0 6	0 7 3 4	0 6 6 5	0 7 3 5	0 1 8 7	0 7 3 0	0 7 3 0		
HARLAN SPRAGUE DAWLEY RATS FEMALE 75 mg/kg																					ANIMAL ID			
0 0 2 7 6	0 0 2 7 7	0 0 2 7 8	0 0 2 8 9	0 0 2 8 0	0 0 2 8 1	0 0 2 8 2	0 0 2 8 3	0 0 2 8 4	0 0 2 8 5	0 0 2 8 6	0 0 2 8 7	0 0 2 8 8	0 0 2 8 9	0 0 2 9 0	0 0 2 9 1	0 0 2 9 2	0 0 2 9 3	0 0 2 9 4	0 0 2 9 5	0 0 2 9 6	0 0 2 9 7	0 0 2 9 8	0 0 2 9 9	0 0 2 9 0

ENDOCRINE SYSTEM

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

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

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

HARLAN SPRAGUE DAWLEY RATS FEMALE 75 mg/kg	DAY ON TEST ANIMAL ID	* TOTALS																								
		0 7 2 9	0 6 4 5	0 7 3 0	0 6 7 0	0 6 3 0	0 4 5 2	0 6 1 1	0 3 8 8	0 7 2 9	0 4 2 1	0 7 3 0	0 4 3 0	0 6 9 6	0 7 6 3	0 7 3 0	0 6 4 5	0 3 5 0	0 7 8 7	0 1 3 0	0 7 3 0	0 7 3 0	0 7 3 0			
Clitoral Gland Cyst		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
		2																								2 2.5
Ovary Atrophy Cyst Inflammation, Chronic Active		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
		3	3	3	2	1		2	1	2	1	2	1	1	1	1	2	3	2	1	1	1	3	3	23 2.0	
		2	2		3			3		3	1														13 2.4	
																									1 3.0	
Uterus Dilatation Inflammation, Acute Endometrium, Hyperplasia, Cystic Endometrium, Metaplasia, Squamous		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
		4	3	3	4		4																			9 3.4
		3	3	3	2	2																				12 2.1
		1						1	1	2	1	2	2		1	1	2	2	1	3	1	1	3	1	28 1.6	
		3	3	2	2	2	3				2	1	1					3	2	3	2	3	1	3	18 2.2	
Vagina																									1	

HEMATOPOIETIC SYSTEM

Bone Marrow Atrophy Hyperplasia		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
		2	1	1	2		2		1																1 3.0
																									20 2.0
Lymph Node Iliac, Hyperplasia, Lymphoid Inguinal, Hemorrhage Lumbar, Hemorrhage Lumbar, Hyperplasia, Lymphoid Lumbar, Infiltration Cellular, Histiocyte	3	+																							6
																									1 2.0
																									1 3.0
																									1 3.0
																									1 3.0
																									1 3.0
																									1 2.0

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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	HARLAN SPRAGUE DAWLEY RATS FEMALE 75 mg/kg																									* TOTALS
		0 7	0 6	0 7	0 7	0 6	0 6	0 7	0 6	0 4	0 6	0 3	0 7	0 4	0 4	0 7	0 6	0 4	0 7	0 6	0 3	0 3	0 7	0 1	0 7	0 7	
	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	
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	2	2	2	2	2	2	32 2.4
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Atrophy		3	1	4	2	3	4	2					4	1	3	1	3	2	2	2	3	1	2	2	3	1	31 2.3
Inflammation																											1 3.0
Epithelial Cell, Hyperplasia																											4 3.3
INTEGUMENTARY SYSTEM																											
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Hyperplasia																											3 1.0
Inflammation		3																									1 3.0
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cyst Epithelial Inclusion																											1
MUSCULOSKELETAL SYSTEM																											
Bone		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Fibrous Osteodystrophy																											1 3.0
NERVOUS SYSTEM																											
Brain		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Gliosis																											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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

SPECIAL SENSES SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X.. Lesion present

A. Autolysis precludes evaluation

| .. Insufficient tissue

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

HARLAN SPRAGUE DAWLEY RATS FEMALE 75 mg/kg	DAY ON TEST ANIMAL ID	* TOTALS																							
		0 7 2 9	0 6 4 5	0 7 3 0	0 6 1 6	0 6 7 0	0 4 5 2	0 6 1 1	0 3 8 8	0 7 2 9	0 4 2 1	0 4 3 0	0 7 6 9	0 6 6 3	0 4 3 6	0 7 3 0	0 6 6 4	0 3 3 5	0 7 3 0	0 1 3 7	0 7 3 0	0 7 3 0	0 7 3 0		
Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																									1 3.0
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Inflammation																									1 2.0
URINARY SYSTEM																									
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Nephropathy	2	3	2	3	1	3	2	1	2	1	1	2	2	4	2	2	1	1	1	3	1	1	1	41 2.0	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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-carbino

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

ALIMENTARY SYSTEM

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

± = Tissue examined microscopically

X Lesion present

| .. 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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

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 FEMALE 150 mg/kg	DAY ON TEST																								
		0 6 1 1	0 4 4 6	0 6 1 5	0 7 3 0	0 7 3 0	0 5 4 8	0 6 3 9	0 7 3 0	0 5 3 6	0 7 2 9	0 3 2 9	0 6 8 8	0 6 8 8	0 7 2 7	0 5 2 6	0 7 2 9	0 6 8 5	0 5 4 6	0 6 4 5	0 6 3 1	0 3 3 9	0 7 2 9		
ANIMAL ID	0 0 0 3 0 1	0 0 0 3 0 2	0 0 0 3 0 3	0 0 0 3 0 4	0 0 0 3 0 5	0 0 0 3 0 6	0 0 0 3 0 7	0 0 0 3 0 8	0 0 0 3 0 9	0 0 0 3 1 0	0 0 0 3 1 1	0 0 0 3 1 2	0 0 0 3 1 3	0 0 0 3 1 4	0 0 0 3 1 5	0 0 0 3 1 6	0 0 0 3 1 7	0 0 0 3 1 8	0 0 0 3 1 9	0 0 0 3 2 0	0 0 0 3 2 1	0 0 0 3 2 2	0 0 0 3 2 3	0 0 0 3 2 4	0 0 0 3 2 5
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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			
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2			
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2			

Oral Mucosa
Hyperplasia, Squamous

Pancreas
Artery, Inflammation, Chronic Active

Salivary Glands

Stomach, Forestomach Hyperplasia

Stomach, Glandular
Erosion
Epithelium, Hyperplasia
Epithelium, Mineralization

CARDIOVASCULAR SYSTEM

Blood Vessel
Degeneration, Focal
Inflammation, Chronic Active
Thrombosis

Heart
Cardiomyopathy
Pericardium, Inflammation

ENDOCRINE SYSTEM

Adrenal Cortex

- * .. Total animals with tissue examined
- + .. Tissue examined microscopically
- X .. Lesion present
- I .. Insufficient tissue

with lesion and mean severity grade

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

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 FEMALE 150 mg/kg		DAY ON TEST	ANIMAL ID																				females (cont...)	
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Degeneration, Cystic		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hyperplasia		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Necrosis		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Thrombosis		0	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hyperplasia																						3	+	+
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Parathyroid Gland		+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	M	+	+	+	+	+	
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Pars Distalis, Hyperplasia		4	2								3								4	3	4	4	2	4
Thyroid Gland		+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	
C-cell, Hyperplasia																						1	2	1
Follicular Cell, Hyperplasia																								
Follicular Cell, Hypertrophy		2	1			2					1								3	1		3		2

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient 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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

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

HEMATOPOIETIC SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X., Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

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

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

INTEGUMENTARY SYSTEM

MUSCULOSKELETAL SYSTEM

NERVOUS SYSTEM

RESPIRATORY SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient 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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

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 FEMALE 150 mg/kg	DAY ON TEST	ANIMAL ID	Data Columns (0-29)																						
			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	7	7	7	7	6	6	6	4	6	2	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3	3	3	2	4	6	4	6	9	2	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	9	4	6	6	6	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
6	7	8	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0

ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient 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

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

HARLAN SPRAGUE DAWLEY RATS FEMALE 150 mg/kg	DAY ON TEST																										
		0 7 3 0	0 7 3 0	0 7 2 9	0 6 6 4	0 6 4 6	0 7 2 9	0 5 9 0	0 7 3 0	0 6 8 8	0 1 3 1	0 6 3 9	0 7 1 9	0 7 3 0	0 6 4 3	0 7 6 0	0 6 0 7	0 3 1 4	0 6 3 7	0 3 9 0	* TOTALS						
ANIMAL ID		0 0 0 0 3 2 6	0 0 0 0 3 2 7	0 0 0 0 3 2 8	0 0 0 0 3 2 9	0 0 0 0 3 3 0	0 0 0 0 3 3 1	0 0 0 0 3 3 2	0 0 0 0 3 3 3	0 0 0 0 3 3 4	0 0 0 0 3 3 5	0 0 0 0 3 3 6	0 0 0 0 3 3 7	0 0 0 0 3 3 8	0 0 0 0 3 3 9	0 0 0 0 3 4 0	0 0 0 0 3 4 1	0 0 0 0 3 4 2	0 0 0 0 3 4 3	0 0 0 0 3 4 4	0 0 0 0 3 4 5	0 0 0 0 3 4 6	0 0 0 0 3 4 7	0 0 0 0 3 4 8	0 0 0 0 3 4 9		
Oral Mucosa		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia, Squamous																											1 1.0
Pancreas		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	49	
Artery, Inflammation, Chronic Active																											3 2.7
Salivary Glands		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	+	48	
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia																											7 2.1
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Erosion																											1 3.0
Epithelium, Hyperplasia																											1 2.0
Epithelium, Mineralization																											1 1.0

CARDIOVASCULAR SYSTEM

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

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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

HARLAN SPRAGUE DAWLEY RATS FEMALE 150 mg/kg	DAY ON TEST																									* TOTALS
		0 7 3 0	0 7 3 0	0 7 2 9	0 6 6 4	0 6 4 6	0 7 2 9	0 5 9 0	0 7 3 0	0 6 8 8	0 1 3 1	0 6 1 9	0 7 3 0	0 6 4 3	0 7 6 0	0 6 0 7	0 3 1 4	0 6 3 7	0 3 9 0	0 3 7 0						
ANIMAL ID		0 0 0 0																								
Degeneration, Cystic		1																								11 2.4
Hyperplasia		2	4	1	1																					18 1.9
Necrosis																										1 2.0
Thrombosis																										1 3.0
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia																										11 1.9
Islets, Pancreatic		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Parathyroid Gland		+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	46	
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Pars Distalis, Hyperplasia		4				3	3																			18 3.3
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	48	
C-cell, Hyperplasia																										6 2.3
Follicular Cell, Hyperplasia																										1 2.0
Follicular Cell, Hypertrophy		3	1	1	2	1	1	2	2	2	2	3	1	2	1	1									1 24 1.7	

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst																										3 3.0
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy	2	3	1	1	3	2	3	3	2	2	1	1	3	3	3	2	2	2	2	2	2	2	2	2	37 2.0	

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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

HARLAN SPRAGUE DAWLEY RATS FEMALE 150 mg/kg	DAY ON TEST																									* TOTALS
		0 7 3 0	0 7 3 0	0 7 2 9	0 6 6 4	0 6 4 6	0 7 2 9	0 5 9 0	0 7 3 0	0 6 8 8	0 1 3 1	0 6 3 9	0 7 1 9	0 7 3 0	0 6 4 3	0 7 6 0	0 6 0 7	0 3 1 7	0 6 3 0	0 3 1 7	0 6 3 0	0 3 1 7	0 6 3 0			
ANIMAL ID		0 0 0 0 3 2 6	0 0 0 0 3 2 7	0 0 0 0 3 3 0	0 0 0 0 3 3 1	0 0 0 0 3 3 2	0 0 0 0 3 3 3	0 0 0 0 3 3 4	0 0 0 0 3 3 5	0 0 0 0 3 3 6	0 0 0 0 3 3 7	0 0 0 0 3 3 8	0 0 0 0 3 3 9	0 0 0 0 3 4 0	0 0 0 0 3 4 1	0 0 0 0 3 4 2	0 0 0 0 3 4 3	0 0 0 0 3 4 4	0 0 0 0 3 4 5	0 0 0 0 3 4 6	0 0 0 0 3 4 7	0 0 0 0 3 4 8	0 0 0 0 3 4 9			
Cyst		3 3																								16 2.5
Inflammation, Acute																										1 3.0
Necrosis, Fibrinoid																										1 4.0
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst																										2 2.5
Dilatation							4																			7 3.6
Inflammation, Acute							3																			6 1.8
Thrombosis																										1 2.0
Endometrium, Hyperplasia, Cystic		3 2	2 3		2 1		2 1	2		3 1		1 2		2 3		2 3		3 2		2 3		2 3		2 2		29 2.0
Endometrium, Metaplasia, Squamous		1 3		2	1		1 2	1	1 2	1	1 2		2 3		2 3		3 2		2 3		2 3		2 2		20 2.1	
HEMATOPOIETIC SYSTEM																										
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy																										1 2.0
Hyperplasia							2		2	2	3		3		2										23 2.2	
Lymph Node																										4 1
Inguinal, Hyperplasia, Lymphoid																										1 2.0
Lumbar, Infiltration Cellular, Histiocyte																										1 3.0
Mediastinal, Ectasia																										1 3.0
Mediastinal, Hemorrhage																										1 3.0
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Lymphatic, Ectasia																										1 1.0
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

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

HARLAN SPRAGUE DAWLEY RATS FEMALE 150 mg/kg	DAY ON TEST																									* TOTALS		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
ANIMAL ID	7	7	7	7	6	6	6	7	5	7	7	6	1	6	7	7	6	7	1	6	3	6	3	1	9	3	* TOTALS	
	3	3	3	2	6	4	4	2	2	9	3	3	8	8	3	1	9	3	0	6	4	0	1	9	3	0		
Bronchiole, Hyperplasia		0	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 1.0
Nose		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+ 49	
Angiectasis																											1 2.0	
Foreign Body		X																									X 3	
Inflammation, Chronic Active		2																									1 5 1.6	
Olfactory Epithelium, Atrophy																											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		
SPECIAL SENSES SYSTEM																												
Eye		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Inflammation																											1 3.0	
Harderian Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia, Focal																											1 1.0	
URINARY SYSTEM																												
Kidney		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Nephropathy		1	1	2	2	2	2	3	3	3	2	2	1	2	2	2	2	2	2	3	+	+	+	+	+	42 2.2		
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50		
Hyperplasia																											1 3.0	

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

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

ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

Mesentery

Oral Mucosa
Hyperplasia, Squamous

Pancreas
 Acinus, Hyperplasia
 Artery, Inflammation, Chronic Active

Salivary Glands

Stomach, Forestomach
Hyperplasia
Inflammation

Stomach, Glandular

Tongue Cyst

CARDIOVASCULAR SYSTEM

Blood Vessel
Inflammation, Chronic Active

Heart
Cardiomyopathy
Epicardium, Inflammation

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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 FEMALE 300 mg/kg		DAY ON TEST	ANIMAL ID																								females (cont...)						
			0 6 2 2	0 1 7 5	0 7 2 9	0 3 5 0	0 7 2 9	0 6 3 0	0 7 2 9	0 1 7 0	0 7 2 9	0 4 1 0	0 6 9 2	0 7 1 9	0 7 2 9	0 7 3 0	0 6 8 8	0 6 6 5	0 7 2 9	0 7 3 0	0 7 2 9	0 7 3 0	0 7 2 9	0 7 3 0									
			0 0 0 3																														
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							
Degeneration, Cystic			2		2		3																						2				
Degeneration, Fatty																																	
Hyperplasia																																	
Inflammation																																	
Necrosis																																	
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Hyperplasia			1	1		2		2																					2				
Islets, Pancreatic																														1			
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+				
Pars Distalis, Hyperplasia			3		1	1	2	3		2																		1					
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+						
C-cell, Hyperplasia			4		4	1																											
Follicular Cell, Hyperplasia																																	
Follicular Cell, Hypertrophy																																	
		1	3		1	2		2	2																				2	1	3	1	2

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

**Clitoral Gland
Cyst**

M. Missing tissue

1-4 Lesion qualified as:

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

* Total animals with tissue examined

+ .. Tissue examine

X .. Lesion present

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

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

HARLAN SPRAGUE DAWLEY RATS FEMALE 300 mg/kg	DAY ON TEST ANIMAL ID																									females (cont...)	
		0 6 2 2	0 1 7 5	0 7 2 9	0 3 2 0	0 7 3 0	0 6 9 9	0 7 3 0	0 4 1 6	0 6 9 2	0 7 1 9	0 7 2 9	0 7 3 0	0 7 2 1	0 6 8 8	0 6 6 5	0 7 2 9	0 7 3 0	0 7 2 9	0 7 3 0	0 7 2 9	0 7 3 0	0 7 2 9	0 7 3 0			
Inflammation																										3	
Ovary		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Angiectasis																											
Atrophy		1	3		1	3	1	3		2	3	1	3	1	3	1	2	3	1	2	4	2	2	3	3		
Cyst			2		3	3	3	3	2		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
Inflammation, Acute																										2	
Inflammation, Chronic																											
Inflammation, Chronic Active																											
Uterus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Dilatation																											
Inflammation, Acute																											3
Thrombosis																											2
Endometrium, Hyperplasia, Cystic																											
Endometrium, Metaplasia, Squamous																											
Vagina		+																									
HEMATOPOIETIC SYSTEM																											
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
Hyperplasia		3	1		3	2	2	2	3								3	2		3	2	1	1	2	2	2	
Lymph Node																											
Axillary, Hyperplasia, Lymphoid																											
Iliac, Infiltration Cellular, Histiocyte																											3
Lymph Node, Mandibular		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

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

+ .. Tissue examined microscopically

X .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: Gavage

Species/Strain: RATS/HSD

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 FEMALE 300 mg/kg	DAY ON TEST	ANIMAL ID																							
			0 6 2 2	0 1 7 5	0 7 3 0	0 7 3 0	0 6 2 9	0 7 3 0	0 1 7 6	0 7 2 0	0 4 1 6	0 6 9 2	0 7 1 9	0 7 2 9	0 7 3 0	0 6 8 1	0 6 8 8	0 6 5 0	0 7 2 9	0 7 3 0	0 7 2 9	0 7 3 0			
			0 0 3 5 1	0 0 3 5 2	0 0 3 5 3	0 0 3 5 4	0 0 3 5 5	0 0 3 5 6	0 0 3 5 7	0 0 3 5 8	0 0 3 5 9	0 0 3 6 0	0 0 3 6 1	0 0 3 6 2	0 0 3 6 3	0 0 3 6 4	0 0 3 6 5	0 0 3 6 6	0 0 3 6 7	0 0 3 6 8	0 0 3 6 9	0 0 3 7 0	0 0 3 7 1	0 0 3 7 2	0 0 3 7 3

Necrosis

2

RESPIRATORY SYSTEM

SPECIAL SENSES SYSTEM

URINARY SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

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

Urinary Bladder

**females
(cont...)**

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient 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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Indole-3-carbino

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

ALIMENTARY SYSTEM

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

CARDIOVASCULAR SYSTEM

ENDOCRINE SYSTEM

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

± .. Tissue examined microscopically

X - Lesion present

| ... 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

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

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

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Cyst																										4 3.0

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20006 - 03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

Date Report Requested: 04/16/2013

Time Report Requested: 09:53:55

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

Lab: BAT

HEMATOPOIETIC SYSTEM

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

† Total animals with tissue examined

M Missing tissue

X Lesion present

| Insufficient tissue

A Autolysis precludes evaluation

BLANK Not examined microscopically.

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

HARLAN SPRAGUE DAWLEY RATS FEMALE 300 mg/kg	DAY ON TEST ANIMAL ID	* TOTALS																								
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lymph Node, Mesenteric	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Hemorrhage																										1 3.0
Lymphatic, Ectasia																										15 1.7
Spleen	M	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Hematopoietic Cell Proliferation		3		2	2	3	1	1	2	2	2	2	2	1	2	2	1	3	3	3	3	3	3	3	33 2.2	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Atrophy	1	2		2	3	1	4	2	4		2	3	1	3		2	2	3	2	3	2	3	2	3	38 2.3	
Hemorrhage																										1 2.0
INTEGUMENTARY SYSTEM																										
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hyperplasia																										7 1.4
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Cyst Epithelial Inclusion																										1 1.0
Fibrosis	1																									1 1.0
MUSCULOSKELETAL SYSTEM																										
Bone	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Skeletal Muscle																										1
NERVOUS SYSTEM																										
Brain	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Hemorrhage																										1 2.0

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

A .. Autolysis precludes evaluation

I .. Insufficient tissue

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

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

HARLAN SPRAGUE DAWLEY RATS FEMALE 300 mg/kg	DAY ON TEST ANIMAL ID																									* TOTALS	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		1	7	5	7	1	7	7	7	5	7	7	0	7	5	7	7	5	7	7	7	6	6	7	6	7	7
		9	3	9	3	8	3	3	3	6	2	2	0	2	2	3	7	2	3	0	0	2	4	5	2	3	0
		7	0	2	0	4	0	0	0	3	2	9	2	9	5	2	9	1	1	2	9	5	4	5	2	9	3
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
		7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	0
		6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	9	0

Necrosis 1 2.0

RESPIRATORY SYSTEM

Lung	+	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Inflammation, Chronic		1	2			2	1		3	2		3		1	3	3	2	3	3	3	2	3			35	2.3	
Alveolar Epithelium, Hyperplasia																									1	1.0	
Alveolar Epithelium, Metaplasia, Squamous																									1	1.0	
Alveolus, Infiltration Cellular, Histiocyte																									9	1.1	
Nose	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	
Foreign Body		X																								3	
Inflammation, Chronic Active			1				2																		6	1.3	
Olfactory Epithelium, Atrophy				2																					5	1.6	
Respiratory Epithelium, Hyperplasia					1																				2	1.0	
Respiratory Epithelium, Metaplasia, Squamous																										1	1.0
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50	

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

URINARY SYSTEM

Kidney	M	+	+	+	M	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Nephropathy		2	2	1		1	1	3	1	1	3	2	2	2	3	1	3	2	2	3	1	1	3	1	2	43 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

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: RATS/HSD

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 FEMALE 300 mg/kg		ANIMAL ID	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
1	7	5	7	1	7	7	7	5	7	7	6	7	2	9	5	7	1	9	7	3	2	4	5	7	3
9	3	9	3	8	3	3	3	6	2	2	0	2	9	0	5	7	2	9	0	3	2	4	5	7	4
7	0	2	0	4	0	0	0	3	0	0	3	9	2	9	5	0	1	9	0	0	2	9	4	5	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4
7	7	7	7	7	8	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	8	9	0	1	2	3	4	5	6	7	8	9	0

*** END OF REPORT ***

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

+ .. Tissue examined microscopically

M .. Missing tissue

X .. Lesion present

I .. Insufficient tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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