#### P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 06/15/2012 **AVERAGE SEVERITY GRADES[b]**

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

Time Report Requested: 12:41:18 First Dose M/F: 04/03/07 / 04/02/07

Lab: BAT

Species/Strain: MICE/B6C3F1

Test Type: CHRONIC

Route: GAVAGE

F1\_M3

**NTP Study Number:** C20006B

03/08/2010 Lock Date:

**Cage Range:** ALL

**Date Range:** ALL

**Reasons For Removal:** ALL

**Removal Date Range:** ALL

Include ALL **Treatment Groups:** 

**Study Gender:** Both

**TDMSE Version:** 2.6.0.0\_007

**PWG Approval Date:** NONE

Test Type: CHRONIC
Route: GAVAGE

Experiment Number: 20006 - 04

Species/Strain: MICE/B6C3F1

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

Time Report Requested: 12:41:18
First Dose M/F: 04/03/07 / 04/02/07

B6C3F1 MICE MALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg	
Disposition Summary					
Animals Initially In Study	50	50	50	50	
Early Deaths					
Accidentally Killed				1	
Dosing Accident			1		
Moribund Sacrifice	17	12	11	9	
Natural Death	6	7	6	8	
Survivors					
Natural Death	1				
Terminal Sacrifice	26	31	32	32	
Animals Examined Microscopically	50	50	50	50	
ALIMENTARY SYSTEM					
Esophagus	(50)	(50)	(50)	(50)	
Mineralization			1 [2.0]		
Gallbladder	(50)	(50)	(49)	(48)	
Atrophy				1 [1.0]	
Inflammation, Suppurative				1 [1.0]	
Intestine Large, Cecum	(50)	(50)	(50)	(50)	
Ulcer		1 [3.0]		1 [4.0]	
Intestine Large, Colon	(50)	(50)	(50)	(50)	
Inflammation, Chronic				1 [3.0]	
Intestine Large, Rectum	(50)	(50)	(50)	(50)	
Inflammation, Chronic		1 [3.0]			
Intestine Small, Duodenum	(50)	(50)	(50)	(50)	
Ulcer				1 [4.0]	
Epithelium, Atrophy				1 [3.0]	
Intestine Small, Ileum	(50)	(50)	(50)	(50)	
Intestine Small, Jejunum	(50)	(50)	(49)	(50)	
Atrophy	1 [3.0]				
Inflammation, Suppurative	1 [1.0]				
Lymphangiectasis	1 [2.0]	4.50.03	4 70 01	4 (0.01	
Peyer's Patch, Hyperplasia	(50)	1 [2.0]	1 [2.0]	1 [2.0]	
Liver	(50)	(50)	(49)	(50)	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

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

Time Report Requested: 12:41:18

First Dose M/F: 04/03/07 / 04/02/07

Lab: BAT

Species/Strain: MICE/B6C3F1

Test Type: CHRONIC

Route: GAVAGE

Experiment Number: 20006 - 04

Fat, Necrosis       4 [2.3]       2 [1.5]       2 [2.0]         Oral Mucosa       (0)       (1)       (0)       (2)         Pancreas       (50)       (50)       (50)       (50)         Inflammation, Chronic       2 [3.5]       2 [3.5]         Acinus, Atrophy       1 [1.0]       1 [1.0]       2 [3.5]         Duct, Cyst       1 [2.0]       5       5         Salivary Glands       (50)       (50)       (50)       (50)         Infiltration Cellular, Mononuclear Cell       23 [1.2]       30 [1.0]       27 [1.1]       22 [1.0]         Duct, Sublingual Gland, Hyperplasia       (50)       (50)       (50)       (50)         Stomach, Forestomach       (50)       (50)       (50)       (50)         Inflammation, Chronic       1 [1.0]       4 [1.8]       1 [2.0]         Ulcer       6 [2.7]       5 [2.4]       7 [2.4]       1 [2.0]         Epithelium, Hyperplasia       2 [2.5]       2 [3.0]       4 [1.8]       2 [2.5]         Stomach, Glandular       (50)       (47)       (47)       (49)         Erosion       1 [2.0]       1 [1.0]       18 [1.0]       45 [1.0]         Inflammation, Chronic       1 [1.0]       1 [1.0] </th <th>B6C3F1 MICE MALE</th> <th>0 mg/kg</th> <th>62.5 mg/kg</th> <th>125 mg/kg</th> <th>250 mg/kg</th> <th></th>	B6C3F1 MICE MALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg	
Eosinophilic Focus   29   35   35   37   16   16   16   16   16   16   16   1	Basophilic Focus	2	4	2	5	
Faty Change         29 [1.7]         27 [1.5]         28 [1.5]         37 [1.6]           Hepatodiaphragmatic Nodule         1         1         1           Inflammation, Chronic         1         6         6         5           Mixed Cell Focus         3 [2.7]         2 [2.0]         2 [2.0]         2 [2.0]           Necrosis, Multifocal         1 [3.0]         1         6         6         5           Necrosis, Multifocal         1 [3.0]         1         6         6         5           Artery, Thrombosis         1 [3.0]         1         13.0]         113.0]           Oval Cell, Hyperplasia         1 [2.0]         1 [2.0]         12.0]         12.0]           Periportal, Fibrosis         7         (3)         (2)         (2)         (2)         (2)         13.0]         (2)	Clear Cell Focus	7	17	22	20	
Hepatodiaphragmatic Nodule	Eosinophilic Focus	29	35	35	33	
Hepatodiaphragmatic Nodule   1	Fatty Change	29 [1.7]	27 [1.5]	28 [1.5]	37 [1.6]	
Mixed Cell Focus         1         6         6         5           Necrosis         3 [2.7]         2 [2.0]         2 [2.0]         2 [2.0]           Necrosis, Multifocal         1 [3.0]         1         2         1         2.0         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         2         1         2         2         3         1         2         1         2         2         3         3         2         1	Hepatodiaphragmatic Nodule					
Mixed Cell Focus         1         6         6         5           Necrosis         3 [2.7]         2 [2.0]         2 [2.0]         2 [2.0]           Necrosis, Multifocal         1 [3.0]         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         2         1         2         2         2         3         3         1         2         1         2         2         3         3	Inflammation, Chronic				1 [3.0]	
Necrosis, Multifocal 1 [3.0] Artery, Thrombosis 1 1 [3.0] Artery, Thrombosis 1 1 [3.0] Dval Cell, Hyperplasia 1 1 [2.0] Periportal, Fibrosis 1 1 [3.0] Mesentery (7) (3) (2) (2) Fat, Necrosis 4 [2.3] 2 [1.5] 2 [2.0] Oral Mucosa (0) (1) (0) (2) Pancreas (50) (50) (50) (50) (50) Inflammation, Chronic 2 [3.5] Acinus, Altrophy 1 [1.0] 1 [1.0] Duct, Cyst 1 [2.0] Salivary Glands (50) (50) (50) (50) Infiltration Cellular, Mononuclear Cell 23 [1.2] 30 [1.0] 27 [1.1] 22 [1.0] Duct, Sublingual Gland, Hyperplasia Stomach, Forestomach (50) (50) (50) (50) Inflammation, Chronic 1 [1.0] 4 [1.8] 1 [2.0] Ulcer 6 [2.7] 5 [2.4] 7 [2.4] 1 [2.0] Ulcer 6 [2.7] 5 [2.4] 7 [2.4] 1 [2.0] Ulcer 6 [2.7] 5 [2.4] 7 [2.4] 1 [2.0] Ulcer 6 [2.7] 5 [2.4] 7 [2.4] 1 [2.0] Ulcer 6 [3.7] 5 [2.4] 7 [2.4] 1 [2.0] Ulcer 6 [3.7] 5 [2.4] 7 [2.4] 1 [2.0] Ulcer 6 [3.7] 5 [2.4] 7 [2.4] 1 [2.0] Ulcer 6 [3.7] 5 [2.4] 7 [2.4] 1 [2.0] Ulcer 6 [3.7] 5 [2.4] 7 [2.4] 1 [2.0] Ulcer 7 [3.0] 4 [1.0] 1 [1.0] 1 [1.0] 1 [1.0] 4 [1.0] 4 [1.0] 4 [1.0] Ulcer 7 [3.0] 4 [1.0] 4 [1.0] 4 [1.0] 4 [1.0] 4 [1.0] Ulcer 7 [3.0] 4 [1.0] 4 [1.0] 4 [1.0] 4 [1.0] 4 [1.0] 4 [1.0] Ulcer 7 [3.0] 4 [1.0] 4 [1.0] 4 [1.0] 4 [1.0] 4 [1.0] Ulcer 7 [3.0] 4 [1.0] 4 [1.0] 4 [1.0] 4 [1.0] 4 [1.0] Ulcer 8 [3.0] 4 [1.0] 4	Mixed Cell Focus	1	6	6		
Necrosis, Multifocal 1 [3.0] Artery, Thrombosis 1 1 [3.0] Artery, Thrombosis 1 1 [3.0] Oval Cell, Hyperplasia 1 1 [2.0] Periportal, Fibrosis 1 1 [3.0] Mesentery (7) (3) (2) (2) Fat, Necrosis 4 [2.3] 2 [1.5] 2 [2.0] Oral Mucosa (0) (1) (0) (2) Pancreas (50) (50) (50) (50) (50) Inflammation, Chronic 2 [3.5] Acinus, Atrophy 1 [1.0] 1 [1.0] Duct, Cyst 1 [2.0] Salivary Glands (50) (50) (50) (50) Infiltration Cellular, Mononuclear Cell 23 [1.2] 30 [1.0] 27 [1.1] 22 [1.0] Duct, Sublingual Gland, Hyperplasia Stomach, Forestomach (50) (50) (50) (50) Inflammation, Chronic 1 [1.0] 4 [1.8] 1 [2.0] Ulcer 6 [2.7] 5 [2.4] 7 [2.4] 1 [2.0] Ulcer 6 [2.7] 5 [2.4] 7 [2.4] 1 [2.0] Epithelium, Hyperplasia 2 [2.5] 2 [3.0] 4 [1.8] 2 [2.5] Stomach, Glandular (50) (47) (47) (47) (49) Erosion 1 [2.0] Inflammation, Chronic 1 [1.0] 1 [1.0] 18 [1.0] 45 [1.0] Mineralization 5 [1.4] 2 [1.5] Pigmentation 5 [1.4] 2 [1.5] Pigmentation, Atrophy 1 [1.0] 22 [1.2] 40 [1.5] Tooth (30) (37) (32) (32)	Necrosis	3 [2.7]	2 [2.0]	2 [2.0]	2 [2.0]	
Artery, Thrombosis Bile Duct, Hyperplasia Oval Cell, Hyperplasia Periportal, Fibrosis Mesentery (7) (3) (2) (2) (2) (2) (2) (3) Fat, Necrosis (0) (1) (0) (2) Pancreas (0) (50) (50) (50) (50) (50) (50) (50)	Necrosis, Multifocal					
Bile Duct, Hyperplasia       1 [3.0]         Oval Cell, Hyperplasia       1 [2.0]         Periportal, Fibrosis       1 [3.0]         Mesentery       (7)       (3)       (2)       (2)         Fat, Necrosis       4 [2.3]       2 [1.5]       2 [2.0]         Oral Mucosa       (0)       (1)       (0)       (2)         Pancreas       (50)       (50)       (50)       (50)       (50)         Inflammation, Chronic       2 [3.5]       2 [3.5]       2 [3.5]         Acinus, Atrophy       1 [1.0]       1 [1.0]       2 [3.5]         Duct, Cyst       1 [2.0]       50       (50)       (50)         Salivary Glands       (50)       (50)       (50)       (50)         Infiltration Cellular, Mononuclear Cell       23 [1.2]       30 [1.0]       27 [1.1]       22 [1.0]         Duct, Sublingual Gland, Hyperplasia       (50)       (50)       (50)       (50)         Stomach, Forestomach       (50)       (50)       (50)       (50)         Inflammation, Chronic       1 [1.0]       4 [1.8]       1 [2.0]         Ulcer       6 [2.7]       5 [2.4]       7 [2.4]       1 [2.0]         Erosion       1 [2.0]       (47)       <	Artery, Thrombosis				1	
Oval Cell, Hyperplasia Periportal, Fibrosis  Mesentery (7) (3) (2) (2) Fat, Necrosis (4) Fat, Necrosis (6) (7) (7) (8) (1) (8) (1) (9) (1) (9) (2) Pancreas (9) (1) (1) (9) (2) Pancreas (50) (50) (50) (50) (50) (50) (50) (50)					1 [3.0]	
Periportal, Fibrosis         1 [3.0]           Mesentery         (7)         (3)         (2)         (2)           Fat, Necrosis         4 [2.3]         2 [1.5]         2 [2.0]           Oral Mucosa         (0)         (1)         (0)         (2)           Pancreas         (50)         (50)         (50)         (50)         (50)           Inflammation, Chronic         1 [1.0]         1 [1.0]         2 [3.5]           Acinus, Atrophy         1 [1.0]         5 [50]         (50)						
Mesentery       (7)       (3)       (2)       (2)         Fat, Necrosis       4 [2.3]       2 [1.5]       2 [2.0]         Oral Mucosa       (0)       (1)       (0)       (2)         Pancreas       (50)       (50)       (50)       (50)         Inflammation, Chronic       2 [3.5]       2 [3.5]         Acinus, Atrophy       1 [1.0]       5 [1.0]       5 [1.0]         Duct, Cyst       1 [2.0]       5 [3.0]       (50)       (50)         Salivary Glands       (50)       (50)       (50)       (50)         Inflitration Cellular, Mononuclear Cell       23 [1.2]       30 [1.0]       27 [1.1]       22 [1.0]         Duct, Sublingual Gland, Hyperplasia       (50)       (50)       (50)       (50)         Stomach, Forestomach       (50)       (50)       (50)       (50)         Inflammation, Chronic       1 [1.0]       4 [1.8]       1 [2.0]         Epithelium, Hyperplasia       2 [2.5]       2 [3.0]       4 [1.8]       2 [2.5]         Stomach, Glandular       (50)       (47)       (47)       (49)         Erosion       1 [1.0]       1 [1.0]       18 [1.0]       45 [1.0]         Mineralization       5 [1.4] <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
Fat, Necrosis       4 [2.3]       2 [1.5]       2 [2.0]         Oral Mucosa       (0)       (1)       (0)       (2)         Pancreas       (50)       (50)       (50)       (50)         Inflammation, Chronic       2 [3.5]       2 [3.5]         Acinus, Atrophy       1 [1.0]       1 [1.0]       2 [3.5]         Duct, Cyst       1 [2.0]       50       (50)       (50)       (50)       (50)         Salivary Glands       (50)	Mesentery	(7)	(3)	(2)		
Oral Mucosa       (0)       (1)       (0)       (2)         Pancreas       (50)       (50)       (50)       (50)         Inflammation, Chronic       2 [3.5]         Acinus, Atrophy       1 [1.0]       1 [1.0]         Duct, Cyst       1 [2.0]         Salivary Glands       (50)       (50)       (50)       (50)         Infiltration Cellular, Mononuclear Cell       23 [1.2]       30 [1.0]       27 [1.1]       22 [1.0]         Duct, Sublingual Gland, Hyperplasia       (50)       (50)       (50)       (50)         Stomach, Forestomach       (50)       (50)       (50)       (50)         Inflammation, Chronic       1 [1.0]       4 [1.8]       1 [2.0]         Ulcer       6 [2.7]       5 [2.4]       7 [2.4]       1 [2.0]         Epithelium, Hyperplasia       2 [2.5]       2 [3.0]       4 [1.8]       2 [2.5]         Stomach, Glandular       (50)       (47)       (47)       (49)         Erosion       1 [2.0]       1 [1.0]       18 [1.0]       45 [1.0]         Mineralization       5 [1.4]       2 [1.5]       1 [1.0]       48 [1.1]         Pigmentation       1 [1.0]       1 [1.0]       22 [1.2]       40 [1.5]	Fat, Necrosis					
Pancreas       (50)       (41)       (41)       (41)       (42)       (43)       (42)       (43)	Oral Mucosa		(1)			
Inflammation, Chronic       2 [3.5]         Acinus, Atrophy       1 [1.0]       1 [1.0]         Duct, Cyst       1 [2.0]         Salivary Glands       (50)       (50)       (50)         Infiltration Cellular, Mononuclear Cell       23 [1.2]       30 [1.0]       27 [1.1]       22 [1.0]         Duct, Sublingual Gland, Hyperplasia       (50)       (50)       (50)       (50)         Stomach, Forestomach       (50)       (50)       (50)       (50)         Inflammation, Chronic       1 [1.0]       4 [1.8]       1 [2.0]         Ulcer       6 [2.7]       5 [2.4]       7 [2.4]       1 [2.0]         Stomach, Glandular       (50)       (47)       (47)       (49)         Erosion       1 [2.0]       1 [1.0]       18 [1.0]       45 [1.0]         Inflammation, Chronic       1 [1.0]       1 [1.0]       18 [1.0]       45 [1.0]         Mineralization       5 [1.4]       2 [1.5]       1 [1.0]       48 [1.1]         Pigmentation       1 [1.0]       1 [1.0]       38 [1.0]       48 [1.1]         Epithelium, Atrophy       1 [1.0]       22 [1.2]       40 [1.5]         Tooth       (30)       (37)       (32)       (32)	Pancreas					
Acinus, Atrophy       1 [1.0]       1 [2.0]         Duct, Cyst       1 [2.0]         Salivary Glands       (50)       (50)       (50)         Infiltration Cellular, Mononuclear Cell       23 [1.2]       30 [1.0]       27 [1.1]       22 [1.0]         Duct, Sublingual Gland, Hyperplasia       1 [1.0]       50)       (50)       (50)       (50)         Stomach, Forestomach       (50)       (50)       (50)       (50)       (50)         Inflammation, Chronic       1 [1.0]       4 [1.8]       1 [2.0]         Ulcer       6 [2.7]       5 [2.4]       7 [2.4]       1 [2.0]         Epithelium, Hyperplasia       2 [2.5]       2 [3.0]       4 [1.8]       2 [2.5]         Stomach, Glandular       (50)       (47)       (47)       (49)         Erosion       1 [2.0]       1 [1.0]       18 [1.0]       45 [1.0]         Inflammation, Chronic       1 [1.0]       1 [1.0]       38 [1.0]       48 [1.1]         Pigmentation       5 [1.4]       2 [1.5]       1 [3.0]       48 [1.1]         Epithelium, Atrophy       1 [1.0]       22 [1.2]       40 [1.5]         Tooth       (30)       (37)       (32)       (32)	Inflammation, Chronic	, ,	, ,	` ,		
Duct, Cyst       1 [2.0]         Salivary Glands       (50)       (50)       (50)       (50)         Infiltration Cellular, Mononuclear Cell       23 [1.2]       30 [1.0]       27 [1.1]       22 [1.0]         Duct, Sublingual Gland, Hyperplasia       1 [1.0]       1 [1.0]       50)       (50)       (50)         Stomach, Forestomach       (50)       (50)       (50)       (50)       (50)       (50)         Inflammation, Chronic       1 [1.0]       4 [1.8]       1 [2.0]	Acinus, Atrophy	1 [1.0]		1 [1.0]		
Salivary Glands     (50)     (50)     (50)     (50)     (50)       Infiltration Cellular, Mononuclear Cell     23 [1.2]     30 [1.0]     27 [1.1]     22 [1.0]       Duct, Sublingual Gland, Hyperplasia     1 [1.0]     1 [1.0]       Stomach, Forestomach     (50)     (50)     (50)     (50)       Inflammation, Chronic     1 [1.0]     4 [1.8]     1 [2.0]       Ulcer     6 [2.7]     5 [2.4]     7 [2.4]     1 [2.0]       Epithelium, Hyperplasia     2 [2.5]     2 [3.0]     4 [1.8]     2 [2.5]       Stomach, Glandular     (50)     (47)     (47)     (49)       Erosion     1 [2.0]       Inflammation, Chronic     1 [1.0]     1 [1.0]     18 [1.0]     45 [1.0]       Mineralization     5 [1.4]     2 [1.5]     7 [1.0]     1 [1.0]     48 [1.1]       Epithelium, Atrophy     1 [1.0]     22 [1.2]     40 [1.5]       Epithelium, Hyperplasia     1 [1.0]     22 [1.2]     40 [1.5]       Tooth     (30)     (37)     (32)     (32)			1 [2.0]			
Infiltration Cellular, Mononuclear Cell       23 [1.2]       30 [1.0]       27 [1.1]       22 [1.0]         Duct, Sublingual Gland, Hyperplasia       (50)       (50)       (50)       (50)         Stomach, Forestomach       (50)       (50)       (50)       (50)         Inflammation, Chronic       1 [1.0]       4 [1.8]       1 [2.0]         Ulcer       6 [2.7]       5 [2.4]       7 [2.4]       1 [2.0]         Epithelium, Hyperplasia       2 [2.5]       2 [3.0]       4 [1.8]       2 [2.5]         Stomach, Glandular       (50)       (47)       (47)       (49)         Erosion       1 [2.0]       1 [1.0]       18 [1.0]       45 [1.0]         Inflammation, Chronic       1 [1.0]       1 [1.0]       38 [1.0]       48 [1.1]         Pigmentation       5 [1.4]       2 [1.5]       1 [1.0]       48 [1.1]         Epithelium, Atrophy       1 [1.0]       22 [1.2]       40 [1.5]         Tooth       (30)       (37)       (32)       (32)	Salivary Glands	(50)		(50)	(50)	
Duct, Sublingual Gland, Hyperplasia       1 [1.0]         Stomach, Forestomach       (50)       (50)       (50)       (50)         Inflammation, Chronic       1 [1.0]       4 [1.8]       1 [2.0]         Ulcer       6 [2.7]       5 [2.4]       7 [2.4]       1 [2.0]         Epithelium, Hyperplasia       2 [2.5]       2 [3.0]       4 [1.8]       2 [2.5]         Stomach, Glandular       (50)       (47)       (47)       (49)         Erosion       1 [2.0]       1 [1.0]       18 [1.0]       45 [1.0]         Mineralization, Chronic       1 [1.0]       1 [1.0]       38 [1.0]       48 [1.1]         Pigmentation       5 [1.4]       2 [1.5]       2 [1.5]       40 [1.5]         Pigthelium, Atrophy       1 [1.0]       22 [1.2]       40 [1.5]         Tooth       (30)       (37)       (32)       (32)	Infiltration Cellular, Mononuclear Cell					
Stomach, Forestomach       (50)       (50)       (50)       (50)       (50)         Inflammation, Chronic       1 [1.0]       4 [1.8]       1 [2.0]         Ulcer       6 [2.7]       5 [2.4]       7 [2.4]       1 [2.0]         Epithelium, Hyperplasia       2 [2.5]       2 [3.0]       4 [1.8]       2 [2.5]         Stomach, Glandular       (50)       (47)       (47)       (49)         Erosion       1 [2.0]       1 [1.0]       18 [1.0]       45 [1.0]         Inflammation, Chronic       1 [1.0]       1 [1.0]       45 [1.0]         Mineralization       5 [1.4]       2 [1.5]       38 [1.0]       48 [1.1]         Pigmentation       1 [1.0]       38 [1.0]       48 [1.1]       1 [3.0]         Epithelium, Atrophy       1 [1.0]       22 [1.2]       40 [1.5]         Tooth       (30)       (37)       (32)       (32)	Duct, Sublingual Gland, Hyperplasia					
Inflammation, Chronic       1 [1.0]       4 [1.8]       1 [2.0]         Ulcer       6 [2.7]       5 [2.4]       7 [2.4]       1 [2.0]         Epithelium, Hyperplasia       2 [2.5]       2 [3.0]       4 [1.8]       2 [2.5]         Stomach, Glandular       (50)       (47)       (47)       (49)         Erosion       1 [2.0]       (47)       18 [1.0]       45 [1.0]         Inflammation, Chronic       1 [1.0]       1 [1.0]       18 [1.0]       45 [1.0]         Mineralization       5 [1.4]       2 [1.5]       38 [1.0]       48 [1.1]         Pigmentation       1 [1.0]       38 [1.0]       48 [1.1]       1 [3.0]         Epithelium, Atrophy       1 [1.0]       22 [1.2]       40 [1.5]         Tooth       (30)       (37)       (32)       (32)	Stomach, Forestomach	(50)	(50)		(50)	
Ulcer       6 [2.7]       5 [2.4]       7 [2.4]       1 [2.0]         Epithelium, Hyperplasia       2 [2.5]       2 [3.0]       4 [1.8]       2 [2.5]         Stomach, Glandular       (50)       (47)       (47)       (49)         Erosion       1 [2.0]       1 [1.0]       18 [1.0]       45 [1.0]         Inflammation, Chronic       1 [1.0]       1 [1.0]       45 [1.0]         Mineralization       5 [1.4]       2 [1.5]       48 [1.1]         Pigmentation       1 [1.0]       38 [1.0]       48 [1.1]         Epithelium, Atrophy       1 [3.0]       1 [3.0]         Epithelium, Hyperplasia       1 [1.0]       22 [1.2]       40 [1.5]         Tooth       (30)       (37)       (32)       (32)						
Epithelium, Hyperplasia       2 [2.5]       2 [3.0]       4 [1.8]       2 [2.5]         Stomach, Glandular       (50)       (47)       (47)       (49)         Erosion       1 [2.0]       1 [1.0]       1 [1.0]       18 [1.0]       45 [1.0]         Inflammation, Chronic       1 [1.0]       1 [1.0]       38 [1.0]       45 [1.1]         Mineralization       5 [1.4]       2 [1.5]       38 [1.0]       48 [1.1]         Pigmentation       1 [1.0]       38 [1.0]       48 [1.1]         Epithelium, Atrophy       1 [3.0]       1 [3.0]         Epithelium, Hyperplasia       1 [1.0]       22 [1.2]       40 [1.5]         Tooth       (30)       (37)       (32)       (32)		6 [2.7]				
Stomach, Glandular       (50)       (47)       (47)       (49)         Erosion       1 [2.0]         Inflammation, Chronic       1 [1.0]       1 [1.0]       45 [1.0]         Mineralization       5 [1.4]       2 [1.5]         Pigmentation       1 [1.0]       38 [1.0]       48 [1.1]         Epithelium, Atrophy       1 [3.0]       1 [3.0]         Epithelium, Hyperplasia       1 [1.0]       22 [1.2]       40 [1.5]         Tooth       (30)       (37)       (32)       (32)	Epithelium, Hyperplasia					
Erosion       1 [2.0]         Inflammation, Chronic       1 [1.0]       1 [1.0]       45 [1.0]         Mineralization       5 [1.4]       2 [1.5]         Pigmentation       1 [1.0]       38 [1.0]       48 [1.1]         Epithelium, Atrophy       1 [3.0]       1 [3.0]         Epithelium, Hyperplasia       1 [1.0]       22 [1.2]       40 [1.5]         Tooth       (30)       (37)       (32)       (32)	Stomach, Glandular					
Mineralization       5 [1.4]       2 [1.5]         Pigmentation       1 [1.0]       38 [1.0]       48 [1.1]         Epithelium, Atrophy       1 [3.0]         Epithelium, Hyperplasia       1 [1.0]       22 [1.2]       40 [1.5]         Tooth       (30)       (37)       (32)       (32)	Erosion					
Mineralization       5 [1.4]       2 [1.5]         Pigmentation       1 [1.0]       38 [1.0]       48 [1.1]         Epithelium, Atrophy       1 [3.0]       1 [3.0]         Epithelium, Hyperplasia       1 [1.0]       22 [1.2]       40 [1.5]         Tooth       (30)       (37)       (32)       (32)	Inflammation, Chronic	1 [1.0]	1 [1.0]	18 [1.0]	45 [1.0]	
Pigmentation       1 [1.0]       38 [1.0]       48 [1.1]         Epithelium, Atrophy       1 [3.0]         Epithelium, Hyperplasia       1 [1.0]       22 [1.2]       40 [1.5]         Tooth       (30)       (37)       (32)       (32)	Mineralization	5 [1.4]				
Epithelium, Atrophy       1 [3.0]         Epithelium, Hyperplasia       1 [1.0]       22 [1.2]       40 [1.5]         Tooth       (30)       (37)       (32)       (32)	Pigmentation			38 [1.0]	48 [1.1]	
Tooth (30) (37) (32) (32)	Epithelium, Atrophy				1 [3.0]	
	Epithelium, Hyperplasia		1 [1.0]	22 [1.2]	40 [1.5]	
Dysplasia 30 [2.2] 36 [2.6] 32 [2.5] 32 [1.6]	Tooth		(37)	(32)	(32)	
	Dysplasia	30 [2.2]	36 [2.6]	32 [2.5]	32 [1.6]	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC
Route: GAVAGE

Species/Strain: MICE/B6C3F1

Experiment Number: 20006 - 04

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

Time Report Requested: 12:41:18

First Dose M/F: 04/03/07 / 04/02/07

B6C3F1 MICE MALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg	
CARDIOVASCULAR SYSTEM					
Blood Vessel	(49)	(50)	(49)	(49)	
Adventitia, Pulmonary Vein, Infiltration Cellular, Polymorphonuclear	1 [1.0]				
Aorta, Mineralization		1 [2.0]			
Heart	(50)	(50)	(50)	(50)	
Cardiomyopathy	11 [1.2]	7 [1.1]	18 [1.0]	8 [1.1]	
Inflammation, Chronic	1 [1.0]				
Artery, Inflammation, Chronic	1 [2.0]				
Artery, Mineralization		1 [2.0]			
Myocardium, Mineralization		3 [2.3]		1 [1.0]	
Valve, Inflammation				1 [4.0]	
ENDOCRINE SYSTEM					
Adrenal Cortex	(50)	(50)	(50)	(50)	
Hyperplasia	1 [1.0]			1 [2.0]	
Hypertrophy		4 [1.5]	2 [2.0]		
Vacuolization Cytoplasmic		2 [1.0]			
Adrenal Medulla	(50)	(50)	(50)	(50)	
Hyperplasia	2 [1.0]		1 [1.0]	2 [1.0]	
Islets, Pancreatic	(50)	(50)	(50)	(50)	
Hyperplasia	1 [1.0]		1 [3.0]		
Parathyroid Gland	(48)	(44)	(48)	(44)	
Pituitary Gland	(50)	(50)	(50)	(50)	
Cyst	2 [1.0]	1 [1.0]	1 [1.0]	1 [1.0]	
Pars Intermedia, Hyperplasia		1 [1.0]			
Thyroid Gland	(50)	(50)	(50)	(50)	
Inflammation, Chronic				1 [3.0]	
Follicle, Cyst	1				

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 06/15/2012 AVERAGE SEVERITY GRADES[b]

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

Time Report Requested: 12:41:18

First Dose M/F: 04/03/07 / 04/02/07

Lab: BAT

Test Type: CHRONIC Route: GAVAGE

Species/Strain: MICE/B6C3F1

B6C3F1 MICE MALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg	
GENERAL BODY SYSTEM					
None					
GENITAL SYSTEM					
Coagulating Gland	(1)	(0)	(0)	(0)	
Epididymis	(50)	(50)	(50)	(50)	
Angiectasis				1 [4.0]	
Granuloma Sperm				1 [3.0]	
Infiltration Cellular, Mononuclear Cell	1 [1.0]	6 [1.2]	3 [1.0]	5 [1.0]	
Inflammation, Chronic		2 [2.5]			
Preputial Gland	(50)	(50)	(50)	(50)	
Cyst	14 [2.0]	10 [1.9]	6 [2.0]	6 [2.0]	
Inflammation, Suppurative	2 [2.0]				
Inflammation, Granulomatous		2 [1.5]		2 [2.0]	
Prostate	(50)	(50)	(50)	(50)	
Hyperplasia	2 [2.0]		1 [1.0]	1 [2.0]	
Inflammation, Suppurative			1 [2.0]		
Inflammation, Chronic	1 [2.0]			1 [1.0]	
Seminal Vesicle	(50)	(50)	(50)	(50)	
Atrophy	1 [3.0]				
Testes	(50)	(50)	(50)	(50)	
Inflammation, Granulomatous	1 [2.0]				
Inflammation, Chronic	1 [2.0]				
Mineralization	1 [2.0]				
Germinal Epithelium, Atrophy	2 [1.0]		3 [1.3]	3 [2.0]	
HEMATOPOIETIC SYSTEM				-	
Bone Marrow	(50)	(50)	(50)	(50)	
Lymph Node	(2)	(2)	(0)	(4)	
Mediastinal, Hyperplasia		·	·	1 [3.0]	
Pancreatic, Inflammation				1 [4.0]	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 06/15/2012 AVERAGE SEVERITY GRADES[b]

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

Time Report Requested: 12:41:18

First Dose M/F: 04/03/07 / 04/02/07

Lab: BAT

Route: GAVAGE Species/Strain: MICE/B6C3F1

Test Type: CHRONIC

B6C3F1 MICE MALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg	
Pancreatic, Necrosis		1 [4.0]			
Renal, Inflammation				1 [3.0]	
Lymph Node, Mandibular	(50)	(50)	(50)	(50)	
Hyperplasia, Lymphoid		1 [4.0]		1 [3.0]	
Lymph Node, Mesenteric	(48)	(48)	(49)	(50)	
Hematopoietic Cell Proliferation	1 [3.0]				
Hyperplasia, Lymphoid				2 [2.0]	
Inflammation				1 [4.0]	
Spleen	(50)	(50)	(50)	(50)	
Accessory Spleen			1		
Atrophy				1 [2.0]	
Hematopoietic Cell Proliferation	16 [1.9]	16 [2.3]	24 [1.8]	20 [2.1]	
Necrosis	1 [3.0]				
Lymphoid Follicle, Atrophy	2 [3.0]				
Thymus	(49)	(47)	(46)	(45)	
Atrophy	44 [3.1]	44 [2.7]	45 [3.0]	39 [3.3]	
Ectopic Parathyroid Gland		1 [1.0]		1 [1.0]	
INTEGUMENTARY SYSTEM					
Mammary Gland	(2)	(0)	(0)	(0)	
Skin	(50)	(50)	(50)	(50)	
Ulcer	3 [3.0]	2 [3.0]	3 [3.0]	1 [3.0]	
Subcutaneous Tissue, Inflammation, Acute	- []	_[]	1 [3.0]	. [2.2]	
Subcutaneous Tissue, Inflammation, Chronic			2 [2.5]		
MUSCULOSKELETAL SYSTEM					
Bone	(50)	(50)	(50)	(50)	
Hyperostosis	(30)	(30)	1 [1.0]	1 [1.0]	
Skeletal Muscle	(0)	(0)	(2)	(0)	
55.5.5	(0)	(0)	(=)	(0)	

#### **NERVOUS SYSTEM**

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 06/15/2012 AVERAGE SEVERITY GRADES[b]

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

Time Report Requested: 12:41:18 First Dose M/F: 04/03/07 / 04/02/07

Lab: BAT

Test Type: CHRONIC Route: GAVAGE

Species/Strain: MICE/B6C3F1

B6C3F1 MICE MALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg	
Brain Meninges, Inflammation, Chronic	(50)	(50) 1 [1.0]	(50)	(50)	
RESPIRATORY SYSTEM					
Lung	(50)	(50)	(50)	(50)	
Infiltration Cellular, Histiocyte	, ,	2 [2.5]	, ,	1 [3.0]	
Inflammation, Chronic		1 [2.0]	1 [1.0]	1 [4.0]	
Pigmentation, Hemosiderin		1 [2.0]			
Thrombosis		• •	1		
Alveolar Epithelium, Hyperplasia	3 [1.7]	4 [1.0]	5 [1.4]		
Mediastinum, Inflammation, Granulomatous		• •	1 [4.0]		
Nose	(50)	(50)	(50)	(50)	
Foreign Body	3	1	, ,	3	
Inflammation	15 [1.1]	11 [1.2]	12 [1.1]	16 [1.4]	
Polyp, Inflammatory	1 [2.0]	2 [1.5]	3 [1.0]	1 [2.0]	
Respiratory Metaplasia		• •	1 [2.0]		
Nerve, Atrophy				8 [2.0]	
Nerve, Olfactory Epithelium, Atrophy		1 [2.0]			
Olfactory Epithelium, Accumulation, Hyaline Droplet	4 [1.0]	4 [1.3]	5 [1.0]	5 [1.0]	
Olfactory Epithelium, Atrophy	3 [2.0]	5 [1.6]	11 [1.4]	17 [1.5]	
Olfactory Epithelium, Degeneration	1 [1.0]	1 [1.0]	4 [1.8]	2 [2.0]	
Olfactory Epithelium, Metaplasia, Squamous				2 [2.5]	
Olfactory Epithelium, Necrosis				6 [2.2]	
Olfactory Epithelium, Respiratory Metaplasia	14 [1.1]	14 [1.3]	20 [1.5]	27 [1.4]	
Respiratory Epithelium, Accumulation, Hyaline Droplet	18 [1.2]	34 [1.1]	30 [1.1]	26 [1.2]	
Respiratory Epithelium, Hyperplasia	35 [1.0]	40 [1.2]	41 [1.2]	45 [1.3]	
Respiratory Epithelium, Metaplasia, Squamous				1 [2.0]	
Respiratory Epithelium, Necrosis				2 [1.5]	
Trachea	(50)	(50)	(50)	(50)	

#### SPECIAL SENSES SYSTEM

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Indole-3-carbinol

CAS Number: 700-06-1

Experiment Number: 20006 - 04

Species/Strain: MICE/B6C3F1

Test Type: CHRONIC

Route: GAVAGE

Time Report Requested: 12:41:18
First Dose M/F: 04/03/07 / 04/02/07

B6C3F1 MICE MALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg
Eye	(50)	(50)	(50)	(50)
Phthisis Bulbi	1	1	(/	()
Anterior Chamber, Inflammation, Suppurative		1 [3.0]		1 [4.0]
Cornea, Inflammation, Suppurative		1 [3.0]		
Cornea, Inflammation, Chronic	2 [1.0]	3 [1.3]	2 [1.5]	1 [2.0]
Optic Nerve, Infiltration Cellular, Mononuclear Cell				1 [2.0]
Harderian Gland	(50)	(50)	(50)	(50)
Hyperplasia	1 [1.0]	4 [2.3]	5 [2.0]	3 [2.7]
Inflammation, Suppurative	1 [3.0]	1 [3.0]		
Inflammation, Chronic		1 [4.0]		
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Infarct	3 [1.7]	2 [2.5]		
Inflammation, Acute		2 [2.5]		
Inflammation, Chronic	1 [2.0]			1 [3.0]
Metaplasia, Osseous	1 [1.0]	1 [1.0]	1 [1.0]	1 [2.0]
Mineralization	4 [1.8]	8 [1.4]	1 [1.0]	2 [1.0]
Nephropathy	42 [1.5]	50 [1.3]	45 [1.5]	43 [1.3]
Thrombosis		1		
Papilla, Necrosis	1 [2.0]			1 [2.0]
Pelvis, Inflammation, Suppurative	2 [2.0]	2 [2.5]	1 [2.0]	
Renal Tubule, Cyst	1 [1.0]	3 [1.7]	2 [1.5]	2 [1.0]
Renal Tubule, Hyperplasia			1 [1.0]	
Renal Tubule, Pigmentation	1 [2.0]	1 [2.0]	1 [3.0]	5 [1.4]
Renal Tubule, Vacuolization Cytoplasmic	1 [2.0]			
Urethra	(0)	(1)	(0)	(0)
Inflammation, Acute		1 [3.0]		
Urinary Bladder	(50)	(50)	(50)	(50)
Hemorrhage		1 [2.0]		
Inflammation, Chronic	1 [3.0]	2 [1.0]		

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Species/Strain: MICE/B6C3F1

Test Type: CHRONIC

Route: GAVAGE

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 06/15/2012

AVERAGE SEVERITY GRADES[b] Indole-3-carbinol

**CAS Number:** 700-06-1

Time Report Requested: 12:41:18
First Dose M/F: 04/03/07 / 04/02/07

Lab: BAT

B6C3F1 MICE MALE 0 mg/kg 62.5 mg/kg 125 mg/kg 250 mg/kg

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

Test Type: CHRONIC
Route: GAVAGE

Species/Strain: MICE/B6C3F1

Experiment Number: 20006 - 04

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

Time Report Requested: 12:41:18
First Dose M/F: 04/03/07 / 04/02/07

B6C3F1 MICE FEMALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg
Disposition Summary				
Animals Initially In Study	50	50	50	50
Early Deaths				
Dosing Accident	1			
Moribund Sacrifice	10	6	15	3
Natural Death	6	4	9	2
Survivors				
Moribund Sacrifice			1	
Terminal Sacrifice	33	40	25	45
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
	(50)	(50)	(50)	(50)
Esophagus	(50)	(50)	(50)	(50)
Gallbladder	(49)	(50)	(50)	(50)
Cyst	4 [0 0]	1 [1.0]		
Inflammation, Chronic	1 [2.0]	(50)	(50)	(50)
Intestine Large, Cecum	(50)	(50)	(50)	(50)
Intestine Large, Colon	(50)	(50)	(50)	(50)
Intestine Large, Rectum	(50)	(50)	(50)	(50)
Intestine Small, Duodenum	(50)	(50)	(50)	(50)
Intestine Small, Ileum	(50)	(50)	(50)	(50)
Ulcer	1 [4.0]			
Epithelium, Hyperplasia	1 [1.0]	(50)	(50)	(50)
Intestine Small, Jejunum	(50)	(50)	(50)	(50)
Ulcer	1 [4.0]	(50)	(50)	(50)
Liver	(50)	(50)	(50)	(50)
Angiectasis	1 [1.0]	•	7	<b>-</b>
Basophilic Focus	4	6	7	5
Clear Cell Focus	3	2	1	1
Eosinophilic Focus	16	26	26	21
Fatty Change	36 [1.7]	39 [1.5]	35 [1.5]	40 [1.6]
Hematopoietic Cell Proliferation	2 [3.0]	0.14.03		
Hemorrhage		2 [1.0]		4
Hepatodiaphragmatic Nodule				1

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 06/15/2012 AVERAGE SEVERITY GRADES[b]

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

Time Report Requested: 12:41:18 First Dose M/F: 04/03/07 / 04/02/07

Lab: BAT

Species/Strain: MICE/B6C3F1

Test Type: CHRONIC

Route: GAVAGE

B6C3F1 MICE FEMALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg	
Hyperplasia, Lymphoid				1 [3.0]	
Inflammation, Chronic		1 [3.0]			
Mixed Cell Focus	2	4	5	1	
Necrosis	1 [2.0]	1 [1.0]	1 [1.0]		
Bile Duct, Cyst		1 [2.0]			
Centrilobular, Necrosis			1 [4.0]		
Mesentery	(3)	(7)	(7)	(6)	
Fat, Necrosis	3 [2.7]	6 [1.8]	7 [2.4]	5 [2.4]	
Pancreas	(50)	(50)	(50)	(50)	
Angiectasis	()	1 [1.0]	()	()	
Inflammation, Chronic	1 [2.0]	1 [2.0]			
Acinus, Atrophy	. [=]	. []		1 [1.0]	
Acinus, Hyperplasia	1 [2.0]	2 [1.0]	1 [1.0]	. []	
Duct, Cyst	1 [3.0]	_[]	. [•]		
Salivary Glands	(50)	(49)	(50)	(50)	
Hyperplasia	1 [1.0]	(10)	(00)	(00)	
Duct, Cyst	. [5]			1 [3.0]	
Stomach, Forestomach	(50)	(50)	(50)	(50)	
Inflammation, Chronic	1 [1.0]	(00)	(00)	(00)	
Ulcer	9 [2.6]	4 [2.5]	8 [2.1]	3 [2.3]	
Epithelium, Hyperplasia	3 [2.0]	۲ [۲.۵]	1 [2.0]	J [2.5]	
Stomach, Glandular	(48)	(50)	(49)	(50)	
Erosion	(40)	(30)	(43)	1 [2.0]	
Hyperplasia, Lymphoid	1 [2.0]			1 [2.0]	
Inflammation, Chronic	1 [2.0]	15 [1.0]	29 [1.1]	47 [1.3]	
Mineralization	2 [1.0]	13 [1.0]	3 [1.7]	47 [1.5]	
Pigmentation	2 [1.0]	15 [1.0]	31 [1.2]	49 [1.9]	
Epithelium, Hyperplasia	1 [2.0]	7 [1.3]	10 [1.2]	35 [1.4]	
Tongue	(0)	(0)	(0)	(1)	
Tooth	(6)		(9)	(11)	
		(9)			
Dysplasia	6 [1.0]	9 [1.0]	9 [1.0]	10 [1.0]	
CARDIOVASCULAR SYSTEM					
Blood Vessel	(48)	(50)	(50)	(50)	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: GAVAGE

Species/Strain: MICE/B6C3F1

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

Time Report Requested: 12:41:18 First Dose M/F: 04/03/07 / 04/02/07

B6C3F1 MICE FEMALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg	
Mineralization			1 [2.0]		
Aorta, Inflammation, Chronic				1 [2.0]	
Heart	(50)	(50)	(50)	(50)	
Cardiomyopathy	4 [1.3]	3 [1.3]	1 [1.0]	2 [1.0]	
Inflammation, Chronic		1 [3.0]			
Artery, Inflammation, Chronic			1 [2.0]	1 [2.0]	
Myocardium, Mineralization	2 [3.0]			1 [3.0]	
ENDOCRINE SYSTEM					
Adrenal Cortex	(49)	(50)	(50)	(50)	
Hematopoietic Cell Proliferation	1 [3.0]				
Hyperplasia	1 [4.0]	1 [2.0]			
Inflammation, Chronic	1 [2.0]				
Necrosis		1 [2.0]		1 [1.0]	
Vacuolization Cytoplasmic	1 [1.0]	1 [2.0]	1 [1.0]		
Adrenal Medulla	(49)	(50)	(50)	(50)	
Hyperplasia	1 [2.0]	1 [2.0]	3 [1.7]		
Islets, Pancreatic	(50)	(50)	(50)	(50)	
Hyperplasia	5 [1.0]	1 [1.0]	4 [2.3]	1 [1.0]	
Parathyroid Gland	(43)	(48)	(49)	(46)	
Pituitary Gland	(49)	(50)	(50)	(49)	
Cyst		2 [1.0]			
Pars Distalis, Hyperplasia	5 [1.6]	18 [1.8]	6 [1.7]	4 [1.3]	
Pars Distalis, Vacuolization Cytoplasmic				1 [1.0]	
Pars Intermedia, Hyperplasia	1 [3.0]				
Thyroid Gland	(50)	(50)	(49)	(50)	
Inflammation, Chronic			1 [2.0]		
Follicle, Hyperplasia				1 [2.0]	
GENERAL BODY SYSTEM					
Tissue NOS Inflammation, Chronic	(0)	(0)	(1) 1 [1.0]	(0)	

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

Time Report Requested: 12:41:18
First Dose M/F: 04/03/07 / 04/02/07

Lab: BAT

B6C3F1 MICE FEMALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg	
GENITAL SYSTEM					
Clitoral Gland	(49)	(50)	(50)	(50)	
Ovary	(50)	(50)	(50)	(50)	
Angiectasis			1 [3.0]	1 [4.0]	
Cyst	16	15	9	8	
Inflammation, Chronic	1 [3.0]		1 [2.0]		
Mineralization			1 [1.0]		
Thrombosis	2		2	2	
Uterus	(50)	(50)	(50)	(50)	
Inflammation, Suppurative		1 [2.0]			
Inflammation, Chronic		4 [2.8]			
Metaplasia, Squamous			1 [2.0]		
Necrosis	1 [3.0]				
Endometrium, Hyperplasia, Cystic	36 [2.4]	32 [2.1]	30 [2.0]	34 [1.9]	
HEMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(50)	(50)	
Lymph Node	(9)	(5)	(6)	(1)	
Lumbar, Ectasia	1 [3.0]				
Lumbar, Hemorrhage			1 [3.0]		
Renal, Ectasia	2 [3.0]	1 [3.0]	2 [2.5]		
Lymph Node, Mandibular	(50)	(49)	(50)	(50)	
Lymph Node, Mesenteric	(49)	(49)	(49)	(49)	
Spleen	(50)	(50)	(50)	(50)	
Angiectasis	1 [2.0]				
Hematopoietic Cell Proliferation	30 [1.9]	30 [1.4]	27 [1.4]	23 [1.4]	
Hyperplasia, Granulocytic			1 [3.0]		
Hyperplasia, Lymphoid		1 [3.0]			
Hyperplasia, Mast Cell				1 [3.0]	
Pigmentation, Hemosiderin	1 [3.0]				
Lymphoid Follicle, Atrophy		1 [4.0]			
Lymphoid Follicle, Hyperplasia	2 [2.5]				

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Experiment Number: 20006 - 04

Species/Strain: MICE/B6C3F1

Test Type: CHRONIC

Route: GAVAGE

Species/Strain: MICE/B6C3F1

Test Type: CHRONIC

Route: GAVAGE

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 06/15/2012 AVERAGE SEVERITY GRADES[b]

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

Time Report Requested: 12:41:18 First Dose M/F: 04/03/07 / 04/02/07

B6C3F1 MICE FEMALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg	
Thymus Atrophy Hyperplasia	(49) 42 [2.3]	(50) 40 [1.9] 1 [3.0]	(50) 40 [2.0]	(50) 41 [1.7]	
INTEGUMENTARY SYSTEM					
Mammary Gland	(50)	(50)	(50)	(50)	
Inflammation, Chronic	1 [4.0]	(30)	(50)	(30)	
Skin	(50)	(50)	(50)	(50)	
Ulcer	1 [3.0]	()	1 [3.0]	()	
Subcutaneous Tissue, Fibrosis	1 [4.0]				
Subcutaneous Tissue, Hemorrhage				1 [2.0]	
Subcutaneous Tissue, Inflammation, Chronic			1 [2.0]		
MUSCULOSKELETAL SYSTEM					
Bone	(50)	(50)	(50)	(50)	
Fibro-Osseous Lesion	9 [1.2]	13 [1.2]	11 [1.3]	17 [1.3]	
Fracture	1 [2.0]				
Skeletal Muscle	(0)	(1)	(2)	(0)	
NERVOUS SYSTEM					
Brain	(50)	(50)	(50)	(50)	
Hemorrhage	1 [1.0]	(00)	(00)	(55)	
Inflammation, Granulomatous				1 [2.0]	
Hypothalamus, Compression	2 [3.0]				
Meninges, Inflammation, Chronic		1 [4.0]			
RESPIRATORY SYSTEM					
Lung	(50)	(50)	(50)	(50)	
Hemorrhage				1 [2.0]	

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Test Type: CHRONIC
Route: GAVAGE

Experiment Number: 20006 - 04

Species/Strain: MICE/B6C3F1

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

Time Report Requested: 12:41:18
First Dose M/F: 04/03/07 / 04/02/07

B6C3F1 MICE FEMALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg	
Hyperplasia, Lymphoid		1 [3.0]			
Inflammation, Chronic		1 [2.0]			
Metaplasia, Osseous			1 [1.0]		
Thrombosis	1				
Alveolar Epithelium, Hyperplasia	1 [1.0]	2 [1.0]	1 [2.0]	2 [1.0]	
Alveolus, Infiltration Cellular, Histiocyte	1 [1.0]	1 [2.0]	1 [2.0]	1 [2.0]	
Mediastinum, Inflammation, Chronic	1 [3.0]				
Nose	(50)	(50)	(50)	(50)	
Foreign Body			1	2	
Inflammation	4 [1.5]	1 [1.0]	8 [1.1]	39 [1.2]	
Nerve, Atrophy			1 [2.0]	50 [3.0]	
Nerve, Olfactory Epithelium, Atrophy	1 [1.0]	1 [1.0]		• •	
Olfactory Epithelium, Accumulation, Hyaline Droplet	18 [1.2]	27 [1.0]	21 [1.1]	44 [2.1]	
Olfactory Epithelium, Atrophy	1 [1.0]	2 [1.0]	3 [2.0]	45 [2.0]	
Olfactory Epithelium, Degeneration			2 [2.0]	3 [3.0]	
Olfactory Epithelium, Necrosis			2 [1.5]		
Olfactory Epithelium, Respiratory Metaplasia	7 [1.0]	8 [1.0]	16 [1.0]	49 [2.9]	
Respiratory Epithelium, Accumulation, Hyaline Droplet	47 [1.4]	38 [1.1]	42 [1.1]	50 [2.4]	
Respiratory Epithelium, Hyperplasia	32 [1.0]	31 [1.0]	38 [1.0]	50 [3.0]	
Respiratory Epithelium, Metaplasia, Squamous	1 [1.0]				
Respiratory Epithelium, Necrosis	2 [1.0]		1 [1.0]		
Trachea	(50)	(50)	(50)	(50)	
SPECIAL SENSES SYSTEM					
Ear	(2)	(0)	(0)	(0)	
Eye	(50)	(50)	(50)	(50)	
Cornea, Inflammation, Chronic	1 [2.0]		1 [4.0]	1 [2.0]	
Lens, Cataract	-	1 [3.0]	1 [4.0]	1 [3.0]	
Harderian Gland	(50)	(50)	(50)	(50)	
Dilatation		• •	. ,	6 [1.3]	
Hyperplasia	2 [2.0]	3 [1.7]	5 [2.2]	9 [1.6]	
Infiltration Cellular, Mononuclear Cell	24 [1.0]	18 [1.1]	8 [1.0]	22 [1.0]	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Species/Strain: MICE/B6C3F1

Test Type: CHRONIC

Route: GAVAGE

# P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 06/15/2012 AVERAGE SEVERITY GRADES[b]

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

Time Report Requested: 12:41:18 First Dose M/F: 04/03/07 / 04/02/07

Lab: BAT

B6C3F1 MICE FEMALE	0 mg/kg	62.5 mg/kg	125 mg/kg	250 mg/kg
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Infarct	3 [1.7]		1 [3.0]	
Metaplasia, Osseous				1 [1.0]
Mineralization	4 [1.3]	3 [1.3]	4 [1.3]	
Nephropathy	24 [1.3]	25 [1.2]	19 [1.1]	20 [1.1]
Artery, Inflammation, Chronic				1 [3.0]
Renal Tubule, Accumulation, Hyaline Droplet				1 [2.0]
Renal Tubule, Cyst			1 [2.0]	1 [2.0]
Renal Tubule, Pigmentation	1 [1.0]			
Urinary Bladder	(50)	(50)	(50)	(50)
Infiltration Cellular, Mononuclear Cell	3 [1.0]	·	·	•
Transitional Epithelium, Hyperplasia	-			1 [1.0]

\*\*\* END OF REPORT \*\*\*

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)