

**Experiment Number:** 20101-01  
**Test Type:** 18-33 DAYS  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/P53(C57BL/6)

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a)**

**Test Compound:** Senna (powdered)  
**CAS Number:** 8013-11-4

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 22:36:49  
**First Dose M/F:** NA / NA  
**Lab:** BAT

**C Number:** C20101  
**Lock Date:** 01/25/2006  
**Cage Range:** All  
**Date Range:** All  
**Reasons For Removal:** All  
**Removal Date Range:** All  
**Treatment Groups:** All  
**Study Gender:** Both  
**PWG Approval Date:** NONE

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P53(C57BL/6) Mouse MALE	0 ppm	625 ppm	1250 ppm	2500 ppm	5000 ppm	10,000 ppm
<b>Disposition Summary</b>						
Animals Initially In Study	5	5	5	5	5	5
Early Deaths						
Survivors						
Terminal Sacrifice	5	5	5	5	5	5
Animals Examined Microscopically	5	5	5	5	5	5
<b>ALIMENTARY SYSTEM</b>						
Intestine Large, Cecum	(5)	(5)	(5)	(5)	(5)	(5)
Epithelium, Hyperplasia		2 (40%)	1 (20%)	1 (20%)	3 (60%)	5 (100%)
Intestine Large, Colon	(5)	(5)	(5)	(5)	(5)	(5)
Epithelium, Hyperplasia			1 (20%)	1 (20%)	4 (80%)	5 (100%)
Intestine Large, Rectum	(5)	(5)	(5)	(5)	(5)	(5)
Intestine Small, Duodenum	(5)	(5)	(5)	(5)	(5)	(5)
Intestine Small, Ileum	(5)	(5)	(5)	(5)	(5)	(5)
Intestine Small, Jejunum	(5)	(5)	(5)	(5)	(5)	(5)
Liver	(5)	(5)	(5)	(5)	(5)	(5)
Infiltration Cellular, Mixed Cell	5 (100%)	5 (100%)	5 (100%)	4 (80%)	5 (100%)	5 (100%)
Stomach, Forestomach	(5)	(5)	(5)	(5)	(5)	(5)
Stomach, Glandular	(5)	(5)	(5)	(5)	(5)	(5)
<b>CARDIOVASCULAR SYSTEM</b>						
None						
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(5)	(5)	(5)	(5)	(5)	(5)
Atrophy				1 (20%)		
Adrenal Medulla	(5)	(5)	(5)	(5)	(5)	(5)
Pituitary Gland	(5)	(5)	(5)	(5)	(5)	(5)
Thyroid Gland	(5)	(5)	(5)	(5)	(5)	(5)
<b>GENERAL BODY SYSTEM</b>						

a - Number of animals examined microscopically at site and number of animals with lesion

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P53(C57BL/6) Mouse MALE	0 ppm	625 ppm	1250 ppm	2500 ppm	5000 ppm	10,000 ppm
None						
<b>GENITAL SYSTEM</b>						
Epididymis	(5)	(5)	(5)	(5)	(5)	(5)
Granuloma Sperm						1 (20%)
Inflammation	1 (20%)		1 (20%)			
Testes	(5)	(5)	(5)	(5)	(5)	(5)
Degeneration	1 (20%)					
<b>HEMATOPOIETIC SYSTEM</b>						
Lymph Node	(5)	(4)	(5)	(5)	(4)	(5)
Mediastinal, Atrophy		2 (50%)	1 (20%)			
Lymph Node, Mandibular	(5)	(5)	(5)	(5)	(5)	(5)
Lymph Node, Mesenteric	(5)	(5)	(5)	(5)	(5)	(5)
Atrophy	2 (40%)		1 (20%)	1 (20%)		
Spleen	(5)	(5)	(5)	(5)	(5)	(5)
Lymph Follic, Atrophy	1 (20%)			1 (20%)		
Pigmentation, Hemosiderin				1 (20%)	1 (20%)	
Thymus	(5)	(5)	(5)	(5)	(5)	(5)
<b>INTEGUMENTARY SYSTEM</b>						
None						
<b>MUSCULOSKELETAL SYSTEM</b>						
None						
<b>NERVOUS SYSTEM</b>						
None						
<b>RESPIRATORY SYSTEM</b>						
Lung	(5)	(5)	(5)	(5)	(5)	(5)
<b>SPECIAL SENSES SYSTEM</b>						
None						

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<b>P53(C57BL/6) Mouse MALE</b>	<b>0 ppm</b>	<b>625 ppm</b>	<b>1250 ppm</b>	<b>2500 ppm</b>	<b>5000 ppm</b>	<b>10,000 ppm</b>
URINARY SYSTEM						
Kidney	(5)	(5)	(5)	(5)	(5)	(5)
Infiltration Cellular, Mixed Cell						1 (20%)
Nephropathy		1 (20%)				
Papilla, Mineralization	2 (40%)					1 (20%)
Urinary Bladder	(5)	(5)	(5)	(5)	(5)	(5)
Inflammation, Granulomatous, Focal			1 (20%)			

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

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Animals Examined Microscopically	5	5	5	5	5	5
<b>ALIMENTARY SYSTEM</b>						
Intestine Large, Cecum	(5)	(5)	(5)	(5)	(5)	(5)
Epithelium, Hyperplasia				2 (40%)	4 (80%)	5 (100%)
Intestine Large, Colon	(5)	(5)	(5)	(5)	(5)	(5)
Epithelium, Hyperplasia				1 (20%)	5 (100%)	5 (100%)
Intestine Large, Rectum	(5)	(5)	(5)	(5)	(5)	(5)
Epithelium, Hyperplasia						3 (60%)
Intestine Small, Duodenum	(5)	(5)	(5)	(5)	(5)	(5)
Intestine Small, Ileum	(5)	(5)	(5)	(5)	(5)	(5)
Intestine Small, Jejunum	(5)	(5)	(5)	(5)	(5)	(5)
Liver	(5)	(5)	(5)	(5)	(5)	(5)
Hepatocyte, Vacuolization Cytoplasmic					1 (20%)	
Infiltration Cellular, Mixed Cell	5 (100%)	5 (100%)	5 (100%)	5 (100%)	4 (80%)	5 (100%)
Stomach, Forestomach	(5)	(5)	(5)	(5)	(5)	(5)
Stomach, Glandular	(5)	(5)	(5)	(5)	(5)	(5)
Glands, Ectasia	1 (20%)					
<b>CARDIOVASCULAR SYSTEM</b>						
None						
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(5)	(5)	(5)	(5)	(5)	(5)
Atrophy				1 (20%)		
Hyperplasia		2 (40%)		1 (20%)		1 (20%)

a - Number of animals examined microscopically at site and number of animals with lesion

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Adrenal Medulla	(5)	(5)	(5)	(5)	(5)	(5)
Pituitary Gland	(5)	(5)	(4)	(5)	(5)	(5)
Thyroid Gland	(5)	(5)	(5)	(5)	(5)	(5)
Infiltration Cellular, Lipocyte					1 (20%)	
Infiltration Cellular, Mononuclear CI	1 (20%)		1 (20%)	1 (20%)		
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Ovary	(5)	(5)	(5)	(5)	(5)	(5)
Uterus	(5)	(5)	(5)	(5)	(5)	(5)
<b>HEMATOPOIETIC SYSTEM</b>						
Lymph Node	(5)	(5)	(4)	(5)	(5)	(4)
Mediastinal, Atrophy	1 (20%)					
Mediastinal, Hyperplasia			2 (50%)		1 (20%)	
Lymph Node, Mandibular	(5)	(5)	(5)	(5)	(5)	(5)
Lymph Node, Mesenteric	(5)	(5)	(5)	(5)	(5)	(5)
Spleen	(5)	(5)	(5)	(5)	(5)	(5)
Hematopoietic Cell Proliferation	2 (40%)	2 (40%)	2 (40%)	2 (40%)	1 (20%)	3 (60%)
Lymph Follic, Atrophy					1 (20%)	
Pigmentation, Hemosiderin						1 (20%)
Thymus	(5)	(5)	(5)	(5)	(5)	(5)
Atrophy					1 (20%)	
<b>INTEGUMENTARY SYSTEM</b>						
None						
<b>MUSCULOSKELETAL SYSTEM</b>						
None						
<b>NERVOUS SYSTEM</b>						

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None						
<b>RESPIRATORY SYSTEM</b>						
Lung	(5)	(5)	(5)	(5)	(5)	(5)
Infiltration Cellular, Mononuclear CI				1 (20%)		
<b>SPECIAL SENSES SYSTEM</b>						
None						
<b>URINARY SYSTEM</b>						
Kidney	(5)	(5)	(5)	(5)	(5)	(5)
Infiltration Cellular, Mixed Cell		1 (20%)			1 (20%)	
Nephropathy	1 (20%)					2 (40%)
Papilla, Mineralization						1 (20%)
Urinary Bladder	(5)	(5)	(5)	(5)	(5)	(5)

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