

TDMS No. 20101 - 02

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS
ABRIDGED) (a)**

Date Report Requested: 09/22/2009

Test Type: 26-39 WEEKS

Senna (powdered)

Time Report Requested: 11:36:12

Route: DOSED FEED

CAS Number: 8013-11-4

First Dose M/F: 06/26/07 / 06/25/07

Species/Strain: MICE/P53(C57BL/6)

Lab: BAT

F1_MD

C Number: C20101B

Lock Date: 09/03/2008

Cage Range: ALL

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Treatment Groups: Include ALL

Study Gender: Both

TDMSE Version: 2.1.0

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Lab: BAT

P53+/- (C57BL/6) MICE MALE	0 ppm	100 ppm	300 ppm	1000 ppm	3000 ppm	10,000 ppm
Disposition Summary						
Animals Initially in Study	25	25	25	25	25	25
Early Deaths						
Natural Death		1			2	1
Survivors						
Terminal Sacrifice	25	24	25	25	23	24
Animals Examined Microscopically	25	25	25	25	25	25
ALIMENTARY SYSTEM						
Intestine Large, Cecum	(25)	(25)	(25)	(25)	(23)	(25)
Intestine Large, Colon	(25)	(25)	(25)	(25)	(24)	(25)
Intestine Large, Rectum	(24)	(25)	(25)	(25)	(24)	(25)
Intestine Small, Duodenum	(25)	(25)	(25)	(25)	(23)	(25)
Intestine Small, Jejunum	(25)	(25)	(25)	(25)	(23)	(24)
Liver	(25)	(25)	(25)	(25)	(25)	(25)
Hemangiosarcoma, Metastatic, Heart		1 (4%)				
Hepatocellular Adenoma	1 (4%)		5 (20%)		1 (4%)	1 (4%)
Hepatocellular Adenoma, Multiple					1 (4%)	
Pancreas	(25)	(25)	(25)	(25)	(25)	(25)
Hemangiosarcoma, Metastatic, Heart		1 (4%)				
Stomach, Forestomach	(25)	(25)	(25)	(25)	(25)	(25)
Stomach, Glandular	(25)	(25)	(25)	(25)	(25)	(25)
Tooth	(1)	(0)	(0)	(0)	(0)	(0)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(25)	(25)	(25)	(25)	(25)	(25)
Heart	(25)	(25)	(25)	(25)	(25)	(25)
Hemangiosarcoma		1 (4%)				
ENDOCRINE SYSTEM						
Adrenal Cortex	(24)	(25)	(25)	(25)	(25)	(25)
Hemangiosarcoma, Metastatic, Heart		1 (4%)				
Adrenal Medulla	(24)	(25)	(25)	(25)	(25)	(25)

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

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Lab: BAT

P53+/(C57BL/6) MICE MALE	0 ppm	100 ppm	300 ppm	1000 ppm	3000 ppm	10,000 ppm
Hemangiosarcoma, Metastatic, Heart		1 (4%)				
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Coagulating Gland	(2)	(0)	(1)	(0)	(0)	(3)
Epididymis	(25)	(25)	(25)	(25)	(25)	(25)
Preputial Gland	(25)	(25)	(25)	(25)	(25)	(23)
Prostate	(25)	(25)	(25)	(25)	(25)	(25)
Seminal Vesicle	(25)	(25)	(25)	(25)	(25)	(25)
Hemangiosarcoma, Metastatic, Heart		1 (4%)				
Testes	(25)	(25)	(25)	(25)	(25)	(25)
Hemangiosarcoma, Metastatic, Heart		1 (4%)				
HEMATOPOIETIC SYSTEM						
Bone Marrow	(25)	(25)	(25)	(25)	(25)	(25)
Lymph Node, Mandibular	(25)	(25)	(25)	(25)	(24)	(25)
Lymph Node, Mesenteric	(24)	(25)	(25)	(25)	(25)	(25)
Spleen	(25)	(25)	(25)	(25)	(23)	(25)
Thymus	(25)	(24)	(25)	(25)	(23)	(25)
INTEGUMENTARY SYSTEM						
Skin	(25)	(25)	(25)	(25)	(25)	(25)
Hemangioma					1 (4%)	
Subcutaneous Tissue, Sarcoma			1 (4%)			
MUSCULOSKELETAL SYSTEM						
Bone	(25)	(25)	(25)	(25)	(25)	(25)
Femur, Osteoma			1 (4%)			
Maxilla, Osteosarcoma				3 (12%)	1 (4%)	
Vertebra, Osteosarcoma					1 (4%)	

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

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Lab: BAT

P53+/- (C57BL/6) MICE MALE	0 ppm	100 ppm	300 ppm	1000 ppm	3000 ppm	10,000 ppm
NERVOUS SYSTEM						
Brain	(25)	(25)	(25)	(25)	(25)	(25)
Hemangiosarcoma, Metastatic, Heart		1 (4%)				
RESPIRATORY SYSTEM						
Lung	(25)	(25)	(25)	(25)	(25)	(25)
Alveolar/Bronchiolar Adenoma	1 (4%)		1 (4%)			
Hemangiosarcoma, Metastatic, Heart						
Nose	(25)	(25)	(25)	(25)	(25)	(25)
SPECIAL SENSES SYSTEM						
Harderian Gland	(0)	(0)	(0)	(0)	(1)	(0)
Carcinoma					1 (100%)	
URINARY SYSTEM						
Kidney	(25)	(25)	(25)	(25)	(25)	(25)
Hemangiosarcoma, Metastatic, Heart		1 (4%)				
Urinary Bladder	(25)	(25)	(25)	(25)	(25)	(25)
SYSTEMIC LESIONS						
Multiple Organs	*(25)	*(25)	*(25)	*(25)	*(25)	*(25)
Lymphoma Malignant	1 (4%)					

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

* Number of animals with any tissue examined microscopically

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P53+/(C57BL/6) MICE MALE	0 ppm	100 ppm	300 ppm	1000 ppm	3000 ppm	10,000 ppm
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Tumor Summary for Males

Total Animals with Primary Neoplasms (b)	3	1	8	3	5	1
Total Primary Neoplasms	3	1	8	3	6	1
Total Animals with Benign Neoplasms	2		7		3	1
Total Benign Neoplasms	2		7		3	1
Total Animals with Malignant Neoplasms	1	1	1	3	3	
Total Malignant Neoplasms	1	1	1	3	3	
Total Animals with Metastatic Neoplasms		1				
Total Metastatic Neoplasms		9				
Total Animals with Malignant Neoplasms Uncertain Primary Site						
Total Animals with Neoplasms Uncertain-Benign or Malignant						
Total Uncertain Neoplasms						

*** END OF MALE ***

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

b - Primary tumors: all tumors except metastatic tumors

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Lab: BAT

P53+/(C57BL/6) MICE FEMALE	0 ppm	100 ppm	300 ppm	1000 ppm	3000 ppm	10,000 ppm
Disposition Summary						
Animals Initially in Study	25	25	25	25	25	25
Early Deaths						
Moribund Sacrifice	2	2	2	2	2	1
Natural Death				1	1	
Survivors						
Terminal Sacrifice	23	23	23	22	22	24
Animals Examined Microscopically	25	25	25	25	25	25
ALIMENTARY SYSTEM						
Gallbladder	(25)	(25)	(25)	(25)	(25)	(25)
Intestine Large, Cecum	(25)	(25)	(25)	(25)	(25)	(25)
Intestine Large, Colon	(25)	(25)	(25)	(25)	(25)	(25)
Intestine Large, Rectum	(25)	(25)	(25)	(25)	(25)	(25)
Intestine Small, Duodenum	(25)	(25)	(25)	(24)	(25)	(25)
Intestine Small, Jejunum	(25)	(25)	(25)	(25)	(25)	(25)
Liver	(25)	(25)	(25)	(25)	(25)	(25)
Pancreas	(25)	(25)	(25)	(25)	(25)	(25)
Salivary Glands	(25)	(25)	(25)	(25)	(25)	(25)
Stomach, Forestomach	(25)	(25)	(25)	(25)	(25)	(25)
Stomach, Glandular	(25)	(25)	(25)	(25)	(25)	(25)
Granulosa Cell Tumor Malignant, Metastatic, Ovary	1 (4%)					
Tooth	(0)	(1)	(0)	(0)	(0)	(0)
CARDIOVASCULAR SYSTEM						
Heart	(25)	(25)	(25)	(25)	(25)	(25)
ENDOCRINE SYSTEM						
Adrenal Cortex	(25)	(25)	(25)	(25)	(25)	(25)
Adrenal Medulla	(25)	(25)	(25)	(25)	(25)	(25)
Pheochromocytoma Benign	1 (4%)					
Pituitary Gland	(25)	(25)	(25)	(25)	(25)	(25)

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Lab: BAT

P53+/(C57BL/6) MICE FEMALE	0 ppm	100 ppm	300 ppm	1000 ppm	3000 ppm	10,000 ppm
Thyroid Gland	(25)	(25)	(25)	(25)	(25)	(25)
GENERAL BODY SYSTEM						
Peritoneum	(1)	(0)	(0)	(0)	(0)	(0)
Granulosa Cell Tumor Malignant, Metastatic, Ovary	1 (100%)					
GENITAL SYSTEM						
Ovary	(25)	(25)	(25)	(25)	(25)	(25)
Cystadenoma	1 (4%)					
Granulosa Cell Tumor Malignant	1 (4%)					
Uterus	(25)	(25)	(25)	(25)	(25)	(25)
Polyp Stromal			1 (4%)		1 (4%)	
HEMATOPOIETIC SYSTEM						
Bone Marrow	(25)	(25)	(25)	(25)	(25)	(25)
Lymph Node	(2)	(1)	(0)	(0)	(0)	(0)
Renal, Granulosa Cell Tumor Malignant, Metastatic, Ovary	1 (50%)					
Lymph Node, Mandibular	(25)	(25)	(25)	(25)	(25)	(25)
Lymph Node, Mesenteric	(23)	(25)	(25)	(25)	(25)	(25)
Spleen	(25)	(25)	(25)	(25)	(25)	(25)
Thymus	(24)	(22)	(22)	(22)	(22)	(24)
INTEGUMENTARY SYSTEM						
Mammary Gland	(25)	(25)	(25)	(25)	(25)	(25)
Carcinoma				1 (4%)		
MUSCULOSKELETAL SYSTEM						
Bone	(25)	(25)	(25)	(25)	(25)	(25)
Osteosarcoma						1 (4%)
Femur, Osteosarcoma						1 (4%)
Maxilla, Osteosarcoma		1 (4%)		1 (4%)		

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Rib, Osteosarcoma	1 (4%)					
Tibia, Osteosarcoma		1 (4%)				
Vertebra, Osteosarcoma	1 (4%)		1 (4%)	2 (8%)		
NERVOUS SYSTEM						
Brain	(25)	(25)	(25)	(25)	(25)	(25)
Olfactory Neuroblastoma, Metastatic, Nose						1 (4%)
Peripheral Nerve	(1)	(0)	(1)	(1)	(1)	(0)
Spinal Cord	(1)	(0)	(2)	(2)	(1)	(1)
RESPIRATORY SYSTEM						
Lung	(25)	(25)	(25)	(25)	(25)	(25)
Osteosarcoma, Metastatic, Bone		1 (4%)				1 (4%)
Nose	(25)	(25)	(25)	(25)	(25)	(25)
Olfactory Epithelium, Neuroblastoma Malignant						1 (4%)
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
Kidney	(25)	(25)	(25)	(25)	(25)	(25)
Granulosa Cell Tumor Malignant, Metastatic, Ovary	1 (4%)					
Urinary Bladder	(25)	(25)	(25)	(25)	(25)	(25)
SYSTEMIC LESIONS						
Multiple Organs	*(25)	*(25)	*(25)	*(25)	*(25)	*(25)
Histiocytic Sarcoma		1 (4%)				
Lymphoma Malignant	1 (4%)		1 (4%)		1 (4%)	

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* Number of animals with any tissue examined microscopically

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Tumor Summary for Females

Total Animals with Primary Neoplasms (b)	6	3	3	4	2	3
Total Primary Neoplasms	6	3	3	4	2	3
Total Animals with Benign Neoplasms	2		1		1	
Total Benign Neoplasms	2		1		1	
Total Animals with Malignant Neoplasms	4	3	2	4	1	3
Total Malignant Neoplasms	4	3	2	4	1	3
Total Animals with Metastatic Neoplasms	1	1				2
Total Metastatic Neoplasms	4	1				2
Total Animals with Malignant Neoplasms Uncertain Primary Site						
Total Animals with Neoplasms Uncertain-Benign or Malignant						
Total Uncertain Neoplasms						

*** END OF REPORT ***

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

b - Primary tumors: all tumors except metastatic tumors