

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Senna (powdered)
CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
Time Report Requested: 22:37:19
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	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
	2	2	2	2	2	2
	9	9	9	9	9	9
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
	1	2	3	4	5	
						*TOTALS

Alimentary System

Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

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

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

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P53(C57BL/6) Mouse Male 0 ppm	DAY ON TEST					ANIMAL ID	*TOTALS
	0	0	0	0	0		
	0	0	0	0	0	0	
	2	2	2	2	2	0	
	9	9	9	9	9	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	1	2	3	4	5	0	
Epididymis	+	+	+	+	+		5
Testes	+	+	+	+	+		5
Hematopoietic System							
Lymph Node	+	+	+	+	+		5
Lymph Node, Mandibular	+	+	+	+	+		5
Lymph Node, Mesenteric	+	+	+	+	+		5
Spleen	+	+	+	+	+		5
Thymus	+	+	+	+	+		5
Integumentary System							
NONE							
Musculoskeletal System							
NONE							
Nervous System							
NONE							
Respiratory System							
Lung	+	+	+	+	+		5
Special Senses System							
NONE							
Urinary System							

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
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M ..Missing tissue
 A ..Autolysis precludes evaluation
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P53(C57BL/6) Mouse Male 0 ppm	DAY ON TEST	0	0	0	0	0	*TOTALS
	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		2	2	2	2	2	
		9	9	9	9	9	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		1	2	3	4	5	
Kidney		+	+	+	+	+	5
Urinary Bladder		+	+	+	+	+	5
SYSTEMIC LESIONS							
Multiple Organ		+	+	+	+	+	5

* ..Total animals with tissue examined microscopically; Total animals with tumor
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P53(C57BL/6) Mouse Male 625 ppm	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
	2	2	2	2	2	2
	9	9	9	9	9	9
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	1
	6	7	8	9	9	0

*TOTALS

Alimentary System

Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
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P53(C57BL/6) Mouse Male 625 ppm	DAY ON TEST					ANIMAL ID		
	0	0	0	0	0			
	0	0	0	0	0			
	2	2	2	2	2			
	9	9	9	9	9			
	0	0	0	0	0			
	0	0	0	0	0			
	0	0	0	0	0			
	0	0	0	0	1			
	6	7	8	9	0			*TOTALS
Epididymis	+	+	+	+	+			5
Testes	+	+	+	+	+			5
Hematopoietic System								
Lymph Node	M	+	+	+	+			4
Lymph Node, Mandibular	+	+	+	+	+			5
Lymph Node, Mesenteric	+	+	+	+	+			5
Spleen	+	+	+	+	+			5
Thymus	+	+	+	+	+			5
Integumentary System								
NONE								
Musculoskeletal System								
NONE								
Nervous System								
NONE								
Respiratory System								
Lung	+	+	+	+	+			5
Special Senses System								
NONE								
Urinary System								

* ..Total animals with tissue examined microscopically; Total animals with tumor
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	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		2	2	2	2	2	
		9	9	9	9	9	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	1	
		6	7	8	9	0	
Kidney		+	+	+	+	+	5
Urinary Bladder		+	+	+	+	+	5
SYSTEMIC LESIONS							
Multiple Organ		+	+	+	+	+	5

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 Lab: BAT

P53(C57BL/6) Mouse Male 1250 ppm	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
	2	2	2	2	2	2
	9	9	9	9	9	9
ANIMAL ID	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	2	3	4	5	
						*TOTALS

Alimentary System

Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

* ..Total animals with tissue examined microscopically; Total animals with tumor
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P53(C57BL/6) Mouse Male 1250 ppm	DAY ON TEST					*TOTALS
	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	
	1	1	1	1	1	
	1	2	3	4	5	
Epididymis	+	+	+	+	+	5
Testes	+	+	+	+	+	5
Hematopoietic System						
Lymph Node	+	+	+	+	+	5
Lymph Node, Mandibular	+	+	+	+	+	5
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
Integumentary System						
NONE						
Musculoskeletal System						
NONE						
Nervous System						
NONE						
Respiratory System						
Lung	+	+	+	+	+	5
Special Senses System						
NONE						
Urinary System						

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P53(C57BL/6) Mouse Male 1250 ppm	DAY ON TEST					*TOTALS
	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	2	
	9	9	9	9	9	
	ANIMAL ID					
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	1	1	1	1	1	
	1	2	3	4	5	
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5
SYSTEMIC LESIONS						
Multiple Organ	+	+	+	+	+	5

* ..Total animals with tissue examined microscopically; Total animals with tumor
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 Lab: BAT

P53(C57BL/6) Mouse Male 2500 ppm	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
	2	2	2	2	2	2
	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	1	1	1	1	1	2
	6	7	8	9	0	
						*TOTALS

Alimentary System

Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

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 + ..Tissue examined microscopically
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P53(C57BL/6) Mouse Male 2500 ppm	DAY ON TEST					ANIMAL ID	*TOTALS
	0	0	0	0	0		
	0	0	0	0	0	0	
	2	2	2	2	2	2	
	9	9	9	9	9	9	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	1	1	1	1	1	2	
	6	7	8	9	0		
Epididymis	+	+	+	+	+		5
Testes	+	+	+	+	+		5
Hematopoietic System							
Lymph Node	+	+	+	+	+		5
Lymph Node, Mandibular	+	+	+	+	+		5
Lymph Node, Mesenteric	+	+	+	+	+		5
Spleen	+	+	+	+	+		5
Thymus	+	+	+	+	+		5
Integumentary System							
NONE							
Musculoskeletal System							
NONE							
Nervous System							
NONE							
Respiratory System							
Lung	+	+	+	+	+		5
Special Senses System							
NONE							
Urinary System							

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P53(C57BL/6) Mouse Male 2500 ppm	DAY ON TEST	0	0	0	0	0	*TOTALS
	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		2	2	2	2	2	
		9	9	9	9	9	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		1	1	1	1	2	
		6	7	8	9	0	
Kidney		+	+	+	+	+	5
Urinary Bladder		+	+	+	+	+	5
SYSTEMIC LESIONS							
Multiple Organ		+	+	+	+	+	5

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P53(C57BL/6) Mouse Male 5000 ppm	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
	2	2	2	2	2	2
	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	2	2	2	2	2	2
	1	2	3	4	5	
	*TOTALS					

Alimentary System

Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

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P53(C57BL/6) Mouse Male 5000 ppm	DAY ON TEST					ANIMAL ID	*TOTALS
	0	0	0	0	0		
	0	0	0	0	0	0	
	2	2	2	2	2	2	
	9	9	9	9	9	9	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	2	2	2	2	2	2	
	1	2	3	4	5		
Epididymis	+	+	+	+	+		5
Testes	+	+	+	+	+		5
Hematopoietic System							
Lymph Node	+	M	+	+	+		4
Lymph Node, Mandibular	+	+	+	+	+		5
Lymph Node, Mesenteric	+	+	+	+	+		5
Spleen	+	+	+	+	+		5
Thymus	+	+	+	+	+		5
Integumentary System							
NONE							
Musculoskeletal System							
NONE							
Nervous System							
NONE							
Respiratory System							
Lung	+	+	+	+	+		5
Special Senses System							
NONE							
Urinary System							

* ..Total animals with tissue examined microscopically; Total animals with tumor
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P53(C57BL/6) Mouse Male 5000 ppm	DAY ON TEST	0	0	0	0	0	*TOTALS
	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		2	2	2	2	2	
		9	9	9	9	9	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		2	2	2	2	2	
		1	2	3	4	5	
Kidney		+	+	+	+	+	5
Urinary Bladder		+	+	+	+	+	5
SYSTEMIC LESIONS							
Multiple Organ		+	+	+	+	+	5

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Test Compound: Senna (powdered)
 CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
 Time Report Requested: 22:37:19
 First Dose M/F: NA / NA
 Lab: BAT

P53(C57BL/6) Mouse Male 10,000 ppm	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
	2	2	2	2	2	2
	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	2	2	2	2	2	3
	6	7	8	9		0
						*TOTALS

Alimentary System

Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Test Compound: Senna (powdered)
 CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
 Time Report Requested: 22:37:19
 First Dose M/F: NA / NA
 Lab: BAT

P53(C57BL/6) Mouse Male 10,000 ppm	DAY ON TEST					ANIMAL ID	*TOTALS
	0	0	0	0	0		
	0	0	0	0	0	0	
	2	2	2	2	2	2	
	9	9	9	9	9	9	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	2	2	2	2	2	3	
	6	7	8	9	0	0	
Epididymis	+	+	+	+	+		5
Testes	+	+	+	+	+		5
Hematopoietic System							
Lymph Node	+	+	+	+	+		5
Lymph Node, Mandibular	+	+	+	+	+		5
Lymph Node, Mesenteric	+	+	+	+	+		5
Spleen	+	+	+	+	+		5
Thymus	+	+	+	+	+		5
Integumentary System							
NONE							
Musculoskeletal System							
NONE							
Nervous System							
NONE							
Respiratory System							
Lung	+	+	+	+	+		5
Special Senses System							
NONE							
Urinary System							

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Senna (powdered)
CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
Time Report Requested: 22:37:20
First Dose M/F: NA / NA
Lab: BAT

P53(C57BL/6) Mouse Male 10,000 ppm	DAY ON TEST					ANIMAL ID
	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	2	
	9	9	9	9	9	
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	3	
	6	7	8	9	0	
						*TOTALS
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5
SYSTEMIC LESIONS						
Multiple Organ	+	+	+	+	+	5

END OF MALE DATA

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Test Compound: Senna (powdered)
 CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
 Time Report Requested: 22:37:20
 First Dose M/F: NA / NA
 Lab: BAT

P53(C57BL/6) Mouse Female 0 ppm	DAY ON TEST					ANIMAL ID	*TOTALS
	0	0	0	0	0		
	0	0	0	0	0	0	
	2	2	2	2	2	2	
	9	9	9	9	9	9	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	0	0	0	0	0	0	
	3	3	3	3	3	3	
	1	2	3	4	5	5	

Alimentary System

Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Test Compound: Senna (powdered)
 CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
 Time Report Requested: 22:37:20
 First Dose M/F: NA / NA
 Lab: BAT

P53(C57BL/6) Mouse Female 0 ppm	DAY ON TEST					ANIMAL ID	*TOTALS
	0	0	0	0	0		
	0	0	0	0	0		
	2	2	2	2	2		
	9	9	9	9	9		
	0	0	0	0	0		
	0	0	0	0	0		
	0	0	0	0	0		
	3	3	3	3	3		
	1	2	3	4	5		
Ovary	+	+	+	+	+		5
Uterus	+	+	+	+	+		5
Hematopoietic System							
Lymph Node	+	+	+	+	+		5
Lymph Node, Mandibular	+	+	+	+	+		5
Lymph Node, Mesenteric	+	+	+	+	+		5
Spleen	+	+	+	+	+		5
Thymus	+	+	+	+	+		5
Integumentary System							
NONE							
Musculoskeletal System							
NONE							
Nervous System							
NONE							
Respiratory System							
Lung	+	+	+	+	+		5
Special Senses System							
NONE							
Urinary System							

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Senna (powdered)
CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
Time Report Requested: 22:37:20
First Dose M/F: NA / NA
Lab: BAT

P53(C57BL/6) Mouse Female 0 ppm	DAY ON TEST	0	0	0	0	0	*TOTALS
	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		2	2	2	2	2	
		9	9	9	9	9	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		3	3	3	3	3	
		1	2	3	4	5	
Kidney		+	+	+	+	+	5
Urinary Bladder		+	+	+	+	+	5
SYSTEMIC LESIONS							
Multiple Organ		+	+	+	+	+	5

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Test Compound: Senna (powdered)
 CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
 Time Report Requested: 22:37:20
 First Dose M/F: NA / NA
 Lab: BAT

P53(C57BL/6) Mouse Female 625 ppm	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
	2	2	2	2	2	2
	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	3	3	3	3	3	4
	6	7	8	9	9	0
						*TOTALS

Alimentary System

Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Test Compound: Senna (powdered)
 CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
 Time Report Requested: 22:37:20
 First Dose M/F: NA / NA
 Lab: BAT

P53(C57BL/6) Mouse Female 625 ppm	DAY ON TEST					*TOTALS
	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	2	
	9	9	9	9	9	
	ANIMAL ID					
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	3	3	3	3	4	
	6	7	8	9	0	
Ovary	+	+	+	+	+	5
Uterus	+	+	+	+	+	5
Hematopoietic System						
Lymph Node	+	+	+	+	+	5
Lymph Node, Mandibular	+	+	+	+	+	5
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
Integumentary System						
NONE						
Musculoskeletal System						
NONE						
Nervous System						
NONE						
Respiratory System						
Lung	+	+	+	+	+	5
Special Senses System						
NONE						
Urinary System						

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Senna (powdered)
CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
Time Report Requested: 22:37:20
First Dose M/F: NA / NA
Lab: BAT

P53(C57BL/6) Mouse Female 625 ppm	DAY ON TEST					ANIMAL ID		
	0	0	0	0	0			
	0	0	0	0	0	0		
	2	2	2	2	2	0		
	9	9	9	9	9	0		
	0	0	0	0	0	0		
	0	0	0	0	0	0		
	3	3	3	3	3	4		
	6	7	8	9	0			
							*TOTALS	
Kidney	+	+	+	+	+			5
Urinary Bladder	+	+	+	+	+			5
SYSTEMIC LESIONS								
Multiple Organ	+	+	+	+	+			5

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Test Compound: Senna (powdered)
 CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
 Time Report Requested: 22:37:20
 First Dose M/F: NA / NA
 Lab: BAT

P53(C57BL/6) Mouse Female 1250 ppm	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
	2	2	2	2	2	2
	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	4	4	4	4	4	4
	1	2	3	4	4	5
	*TOTALS					

Alimentary System

Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Pituitary Gland	+	+	M	+	+	4
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Test Compound: Senna (powdered)
 CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
 Time Report Requested: 22:37:20
 First Dose M/F: NA / NA
 Lab: BAT

P53(C57BL/6) Mouse Female 1250 ppm	DAY ON TEST					ANIMAL ID	*TOTALS
	0	0	0	0	0		
	0	0	0	0	0		
	2	2	2	2	2		
	9	9	9	9	9		
	0	0	0	0	0		
	0	0	0	0	0		
	0	0	0	0	0		
	4	4	4	4	4		
	1	2	3	4	5		
Ovary	+	+	+	+	+		5
Uterus	+	+	+	+	+		5
Hematopoietic System							
Lymph Node	+	+	+	M	+		4
Lymph Node, Mandibular	+	+	+	+	+		5
Lymph Node, Mesenteric	+	+	+	+	+		5
Spleen	+	+	+	+	+		5
Thymus	+	+	+	+	+		5
Integumentary System							
NONE							
Musculoskeletal System							
NONE							
Nervous System							
NONE							
Respiratory System							
Lung	+	+	+	+	+		5
Special Senses System							
NONE							
Urinary System							

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Senna (powdered)
CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
Time Report Requested: 22:37:20
First Dose M/F: NA / NA
Lab: BAT

P53(C57BL/6) Mouse Female 1250 ppm	DAY ON TEST	0	0	0	0	0	*TOTALS
	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		2	2	2	2	2	
		9	9	9	9	9	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		4	4	4	4	4	
		1	2	3	4	5	
Kidney		+	+	+	+	+	5
Urinary Bladder		+	+	+	+	+	5
SYSTEMIC LESIONS							
Multiple Organ		+	+	+	+	+	5

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Test Compound: Senna (powdered)
 CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
 Time Report Requested: 22:37:20
 First Dose M/F: NA / NA
 Lab: BAT

P53(C57BL/6) Mouse Female 2500 ppm	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
	2	2	2	2	2	2
	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	4	4	4	4	4	5
	6	7	8	9	9	0
						*TOTALS

Alimentary System

Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Test Compound: Senna (powdered)
 CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
 Time Report Requested: 22:37:20
 First Dose M/F: NA / NA
 Lab: BAT

P53(C57BL/6) Mouse Female 2500 ppm	DAY ON TEST					*TOTALS
	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	2	
	9	9	9	9	9	
	ANIMAL ID					
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	4	4	4	4	5	
	6	7	8	9	0	
Ovary	+	+	+	+	+	5
Uterus	+	+	+	+	+	5
Hematopoietic System						
Lymph Node	+	+	+	+	+	5
Lymph Node, Mandibular	+	+	+	+	+	5
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
Integumentary System						
NONE						
Musculoskeletal System						
NONE						
Nervous System						
NONE						
Respiratory System						
Lung	+	+	+	+	+	5
Special Senses System						
NONE						
Urinary System						

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Senna (powdered)
CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
Time Report Requested: 22:37:20
First Dose M/F: NA / NA
Lab: BAT

P53(C57BL/6) Mouse Female 2500 ppm	DAY ON TEST					*TOTALS
	0	0	0	0	0	
	0	0	0	0	0	
	2	2	2	2	2	
	9	9	9	9	9	
	ANIMAL ID					
	0	0	0	0	0	
	0	0	0	0	0	
	0	0	0	0	0	
	4	4	4	4	5	
	6	7	8	9	0	
Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5
SYSTEMIC LESIONS						
Multiple Organ	+	+	+	+	+	5

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Test Compound: Senna (powdered)
 CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
 Time Report Requested: 22:37:20
 First Dose M/F: NA / NA
 Lab: BAT

P53(C57BL/6) Mouse Female 5000 ppm	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
	2	2	2	2	2	2
	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	5	5	5	5	5	5
	1	2	3	4	5	5
	*TOTALS					

Alimentary System

Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

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

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Senna (powdered)
CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
Time Report Requested: 22:37:20
First Dose M/F: NA / NA
Lab: BAT

P53(C57BL/6) Mouse Female 5000 ppm	DAY ON TEST					*TOTALS
	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	
	0	0	0	0	0	
	5	5	5	5	5	
	1	2	3	4	5	
Ovary	+	+	+	+	+	5
Uterus	+	+	+	+	+	5
Hematopoietic System						
Lymph Node	+	+	+	+	+	5
Lymph Node, Mandibular	+	+	+	+	+	5
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5
Integumentary System						
NONE						
Musculoskeletal System						
NONE						
Nervous System						
NONE						
Respiratory System						
Lung	+	+	+	+	+	5
Special Senses System						
NONE						
Urinary System						

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

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

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Test Compound: Senna (powdered)
CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
Time Report Requested: 22:37:20
First Dose M/F: NA / NA
Lab: BAT

P53(C57BL/6) Mouse Female 5000 ppm	DAY ON TEST	0	0	0	0	0	*TOTALS
	ANIMAL ID	0	0	0	0	0	
		0	0	0	0	0	
		2	2	2	2	2	
		9	9	9	9	9	
		0	0	0	0	0	
		0	0	0	0	0	
		0	0	0	0	0	
		5	5	5	5	5	
		1	2	3	4	5	
Kidney		+	+	+	+	+	5
Urinary Bladder		+	+	+	+	+	5
SYSTEMIC LESIONS							
Multiple Organ		+	+	+	+	+	5

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Experiment Number: 20101-01
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 Species/Strain: Mouse/P53(C57BL/6)

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Date Report Requested: 10/22/2014
 Time Report Requested: 22:37:20
 First Dose M/F: NA / NA
 Lab: BAT

P53(C57BL/6) Mouse Female 10,000 ppm	DAY ON TEST	0	0	0	0	0
		0	0	0	0	0
	2	2	2	2	2	2
	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0
	0	0	0	0	0	0
	0	0	0	0	0	0
	5	5	5	5	5	6
	6	7	8	9	9	0
						*TOTALS

Alimentary System

Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5
Thyroid Gland	+	+	+	+	+	5

General Body System

NONE

Genital System

* ..Total animals with tissue examined microscopically; Total animals with tumor
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Experiment Number: 20101-01
 Test Type: 18-33 DAYS
 Route: DOSED FEED
 Species/Strain: Mouse/P53(C57BL/6)

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
 Test Compound: Senna (powdered)
 CAS Number: 8013-11-4

Date Report Requested: 10/22/2014
 Time Report Requested: 22:37:20
 First Dose M/F: NA / NA
 Lab: BAT

P53(C57BL/6) Mouse Female 10,000 ppm	DAY ON TEST					ANIMAL ID	*TOTALS
	0	0	0	0	0		
	0	0	0	0	0		
	2	2	2	2	2		
	9	9	9	9	9		
	0	0	0	0	0		
	0	0	0	0	0		
	0	0	0	0	0		
	5	5	5	5	6		
	6	7	8	9	0		
Ovary	+	+	+	+	+		5
Uterus	+	+	+	+	+		5
Hematopoietic System							
Lymph Node	+	+	+	M	+		4
Lymph Node, Mandibular	+	+	+	+	+		5
Lymph Node, Mesenteric	+	+	+	+	+		5
Spleen	+	+	+	+	+		5
Thymus	+	+	+	+	+		5
Integumentary System							
NONE							
Musculoskeletal System							
NONE							
Nervous System							
NONE							
Respiratory System							
Lung	+	+	+	+	+		5
Special Senses System							
NONE							
Urinary System							

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P53(C57BL/6) Mouse Female 10,000 ppm	DAY ON TEST					ANIMAL ID		
	0	0	0	0	0			
	0	0	0	0	0	0		
	2	2	2	2	2	0		
	9	9	9	9	9	0		
	0	0	0	0	0	0		
	0	0	0	0	0	0		
	5	5	5	5	6	0		
	6	7	8	9	0			
							*TOTALS	
Kidney	+	+	+	+	+			5
Urinary Bladder	+	+	+	+	+			5
SYSTEMIC LESIONS								
Multiple Organ	+	+	+	+	+			5

**** END OF REPORT ****

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