

TDMS No. 20226 - 01
Test Type: 26-WEEK
Route: DOSED FEED
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Chitosan
CAS Number: 9012-76-4

F1_R8

Date Report Requested: 05/28/2009
Time Report Requested: 08:46:11
First Dose M/F: 08/31/06 / 09/01/06
Lab: BAT

C Number: C20226

Lock Date: 05/07/2008

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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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS MALE 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	2	3	4	5	6	7	8	9	0
										* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	10

* .. Total animals with tissue examined microscopically; Total animals with tumor

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x .. Lesion present

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	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS MALE 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	2	3	4	5	6	7	8	9	0
										* TOTALS

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

NONE

* .. Total animals with tissue examined microscopically; Total animals with tumor

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	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS MALE 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	2	3	4	5	6	7	8	9	0
										* TOTALS

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	10
Prostate	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	10

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	10

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	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
.....										
SPRAGUE-DAWLEY RATS MALE 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	2	3	4	5	6	7	8	9	0
										* TOTALS

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	10
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NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	10
Peripheral Nerve	+	+	+	+	+	+	+	+	+	+	10
Spinal Cord	+	+	+	+	+	+	+	+	+	+	10

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Nose	+	+	+	+	+	+	+	+	+	+	10

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		1	1	1	1	1	1	1	1	1	1
		6	6	6	6	6	6	6	6	6	6
		9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS MALE		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	1
		1	2	3	4	5	6	7	8	9	0
* TOTALS											
Trachea		+	+	+	+	+	+	+	+	+	10
SPECIAL SENSES SYSTEM											
Eye		+	+	+	+	+	+	+	+	+	10
Harderian Gland		+	+	+	+	+	+	+	+	+	10
URINARY SYSTEM											
Kidney		+	+	+	+	+	+	+	+	+	10
Urinary Bladder		+	+	+	+	+	+	+	+	+	10
SYSTEMIC LESIONS											
Multiple Organ		+	+	+	+	+	+	+	+	+	10

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	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS MALE ANIMAL ID 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
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
										* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Adrenal Cortex											1
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Prostate	+	+	+	+	+	+	+	+	+	+	10
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HEMATOPOIETIC SYSTEM

NONE

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	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS MALE ANIMAL ID 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
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0
										* TOTALS

INTEGUMENTARY SYSTEM
NONE

MUSCULOSKELETAL SYSTEM
NONE

NERVOUS SYSTEM
NONE

RESPIRATORY SYSTEM
NONE

SPECIAL SENSES SYSTEM

Eye	+									1
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URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	10
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SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	----

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

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
-------------------	---	---	---	---	---	---	---	---	---	---	----

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Prostate	+	+	+	+	+	+	+	+	+	+	10
----------	---	---	---	---	---	---	---	---	---	---	----

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

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

MUSCULOSKELETAL SYSTEM
NONE

NERVOUS SYSTEM
NONE

RESPIRATORY SYSTEM
NONE

SPECIAL SENSES SYSTEM
NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
--------	---	---	---	---	---	---	---	---	---	---	----

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	----

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	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
.....										
SPRAGUE-DAWLEY RATS MALE ANIMAL ID 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
	3	3	3	3	3	3	3	3	3	4
	1	2	3	4	5	6	7	8	9	0
										* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	10
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Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	10

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	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS MALE ANIMAL ID 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
	3	3	3	3	3	3	3	3	3	4
	1	2	3	4	5	6	7	8	9	0
										* TOTALS

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

NONE

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	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
.....										
SPRAGUE-DAWLEY RATS MALE ANIMAL ID 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
	3	3	3	3	3	3	3	3	3	4
	1	2	3	4	5	6	7	8	9	0
										* TOTALS

GENITAL SYSTEM

Epididymis	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	10
Prostate	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	10

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	10

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Time Report Requested: 08:46:11
First Dose M/F: 08/31/06 / 09/01/06
Lab: BAT

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

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	10
Skeletal Muscle							+				1

NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	10
Peripheral Nerve	+	+	+	+	+	+	+	+	+	+	10
Spinal Cord	+	+	+	+	+	+	+	+	+	+	10

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
------	---	---	---	---	---	---	---	---	---	---	----

* .. 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

TDMS No. 20226 - 01
Test Type: 26-WEEK
Route: DOSED FEED
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Chitosan
CAS Number: 9012-76-4

Date Report Requested: 05/28/2009
Time Report Requested: 08:46:11
First Dose M/F: 08/31/06 / 09/01/06
Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	1	
		6	6	6	6	6	6	6	6	6	6	
		9	9	9	9	9	9	9	9	9	9	
SPRAGUE-DAWLEY RATS MALE ANIMAL ID 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	
		3	3	3	3	3	3	3	3	3	4	
		1	2	3	4	5	6	7	8	9	0	
											* TOTALS	
Nose		+	+	+	+	+	+	+	+	+	+	10
Trachea		+	+	+	+	+	+	+	+	+	+	10
SPECIAL SENSES SYSTEM												
Eye		+	+	+	+	+	+	+	+	+	+	10
Harderian Gland		+	+	+	+	+	+	+	+	+	+	10
URINARY SYSTEM												
Kidney		+	+	+	+	+	+	+	+	+	+	10
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	10
SYSTEMIC LESIONS												
Multiple Organ		+	+	+	+	+	+	+	+	+	+	10

*** 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

TDMS No. 20226 - 01
Test Type: 26-WEEK
Route: DOSED FEED
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Chitosan
CAS Number: 9012-76-4

Date Report Requested: 05/28/2009
Time Report Requested: 08:46:11
First Dose M/F: 08/31/06 / 09/01/06
Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	5
0 %	1	2	3	4	5	6	7	8	9	0
										* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	10

* .. 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

TDMS No. 20226 - 01
Test Type: 26-WEEK
Route: DOSED FEED
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Chitosan
CAS Number: 9012-76-4

Date Report Requested: 05/28/2009
Time Report Requested: 08:46:11
First Dose M/F: 08/31/06 / 09/01/06
Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	5
0 %	1	2	3	4	5	6	7	8	9	0
										* TOTALS

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

NONE

* .. 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

TDMS No. 20226 - 01
Test Type: 26-WEEK
Route: DOSED FEED
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Chitosan
CAS Number: 9012-76-4

Date Report Requested: 05/28/2009
Time Report Requested: 08:46:11
First Dose M/F: 08/31/06 / 09/01/06
Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	5
0 %	1	2	3	4	5	6	7	8	9	0
										* TOTALS

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	10
Ovary	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	10

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	10

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	10
---------------	---	---	---	---	---	---	---	---	---	----

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

x .. Lesion present

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TDMS No. 20226 - 01
Test Type: 26-WEEK
Route: DOSED FEED
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Chitosan
CAS Number: 9012-76-4

Date Report Requested: 05/28/2009
Time Report Requested: 08:46:11
First Dose M/F: 08/31/06 / 09/01/06
Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	4	4	4	4	4	4	4	4	4	5
0 %	1	2	3	4	5	6	7	8	9	0
										* TOTALS
Skin	+	+	+	+	+	+	+	+	+	10
MUSCULOSKELETAL SYSTEM										
Bone	+	+	+	+	+	+	+	+	+	10
NERVOUS SYSTEM										
Brain	+	+	+	+	+	+	+	+	+	10
Peripheral Nerve	+	+	+	+	+	+	+	+	+	10
Spinal Cord	+	+	+	+	+	+	+	+	+	10
RESPIRATORY SYSTEM										
Lung	+	+	+	+	+	+	+	+	+	10
Nose	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	10
SPECIAL SENSES 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

TDMS No. 20226 - 01
Test Type: 26-WEEK
Route: DOSED FEED
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Chitosan
CAS Number: 9012-76-4

Date Report Requested: 05/28/2009
Time Report Requested: 08:46:11
First Dose M/F: 08/31/06 / 09/01/06
Lab: BAT

DAY ON TEST		0	0	0	0	0	0	0	0	0	0	
		1	1	1	1	1	1	1	1	1	1	
		6	6	6	6	6	6	6	6	6	6	
		9	9	9	9	9	9	9	9	9	9	
SPRAGUE-DAWLEY RATS FEMALE	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	
		4	4	4	4	4	4	4	4	4	5	
		1	2	3	4	5	6	7	8	9	0	
0 %												* TOTALS
Eye		+	+	+	+	+	+	+	+	+	+	10
Harderian Gland		+	+	+	+	+	+	+	+	+	+	10
URINARY SYSTEM												
Kidney		+	+	+	+	+	+	+	+	+	+	10
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	10
SYSTEMIC LESIONS												
Multiple Organ		+	+	+	+	+	+	+	+	+	+	10

* .. 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

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TDMS No. 20226 - 01
Test Type: 26-WEEK
Route: DOSED FEED
Species/Strain: RATS/SD

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Chitosan
CAS Number: 9012-76-4

Date Report Requested: 05/28/2009
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First Dose M/F: 08/31/06 / 09/01/06
Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	6
1 %	1	2	3	4	5	6	7	8	9	0
										* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

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TDMS No. 20226 - 01
Test Type: 26-WEEK
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Species/Strain: RATS/SD

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Chitosan
CAS Number: 9012-76-4

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Time Report Requested: 08:46:11
First Dose M/F: 08/31/06 / 09/01/06
Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	5	5	5	6
1 %	1	2	3	4	5	6	7	8	9	0
										* TOTALS

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
--------	---	---	---	---	---	---	---	---	---	---	----

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	----

* .. Total animals with tissue examined microscopically; Total animals with tumor

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TDMS No. 20226 - 01
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Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	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	6	6	6	6	6	6	7
3 %	1	2	3	4	5	6	7	8	9	0
										* TOTALS

ALIMENTARY SYSTEM

Liver	+	+	+	+	+	+	+	+	+	+	10
-------	---	---	---	---	---	---	---	---	---	---	----

CARDIOVASCULAR SYSTEM

NONE

ENDOCRINE SYSTEM

NONE

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

NONE

HEMATOPOIETIC SYSTEM

NONE

INTEGUMENTARY SYSTEM

NONE

MUSCULOSKELETAL SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

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TDMS No. 20226 - 01
Test Type: 26-WEEK
Route: DOSED FEED
Species/Strain: RATS/SD

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Chitosan
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First Dose M/F: 08/31/06 / 09/01/06
Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	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	6	6	6	6	6	6	7
3 %	1	2	3	4	5	6	7	8	9	0
										* TOTALS

NONE

NERVOUS SYSTEM

NONE

RESPIRATORY SYSTEM

NONE

SPECIAL SENSES SYSTEM

NONE

URINARY SYSTEM

Kidney	+	+	+	+	+	+	+	+	+	+	10
--------	---	---	---	---	---	---	---	---	---	---	----

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	10
----------------	---	---	---	---	---	---	---	---	---	---	----

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

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TDMS No. 20226 - 01
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DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	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	7	7	7	7	7	8
9 %	1	2	3	4	5	6	7	8	9	0
										* TOTALS

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	10
Pancreas	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	10

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

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TDMS No. 20226 - 01
Test Type: 26-WEEK
Route: DOSED FEED
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Chitosan
CAS Number: 9012-76-4

Date Report Requested: 05/28/2009
Time Report Requested: 08:46:11
First Dose M/F: 08/31/06 / 09/01/06
Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	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	7	7	7	7	7	8
9 %	1	2	3	4	5	6	7	8	9	0
										* TOTALS

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	+	+	+	+	+	10
Heart	+	+	+	+	+	+	+	+	+	+	10

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

GENERAL BODY SYSTEM

NONE

* .. 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

TDMS No. 20226 - 01
Test Type: 26-WEEK
Route: DOSED FEED
Species/Strain: RATS/SD

P04: NEOPLASMS BY INDIVIDUAL ANIMAL
Chitosan
CAS Number: 9012-76-4

Date Report Requested: 05/28/2009
Time Report Requested: 08:46:11
First Dose M/F: 08/31/06 / 09/01/06
Lab: BAT

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	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	7	7	7	7	7	8
9 %	1	2	3	4	5	6	7	8	9	0
										* TOTALS

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Adenoma						X					1

* .. Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6
	9	9	9	9	9	9	9	9	9	9
SPRAGUE-DAWLEY RATS FEMALE	0	0	0	0	0	0	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	7	7	7	7	7	8
9 %	1	2	3	4	5	6	7	8	9	0
										* TOTALS

Skin	+	+	+	+	+	+	+	+	+	+	10
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MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	+	+	+	+	+	10
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NERVOUS SYSTEM

Brain	+	+	+	+	+	+	+	+	+	+	10
Peripheral Nerve	+	+	+	+	+	+	+	+	+	+	10
Spinal Cord	+	+	+	+	+	+	+	+	+	+	10

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	+	+	+	+	+	10
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10

SPECIAL SENSES SYSTEM

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		0	0	0	0	0	0	0	0	0	0	
DAY ON TEST		1	1	1	1	1	1	1	1	1	1	
		6	6	6	6	6	6	6	6	6	6	
		9	9	9	9	9	9	9	9	9	9	
.....												
SPRAGUE-DAWLEY RATS		0	0	0	0	0	0	0	0	0	0	
FEMALE		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	7	7	7	7	7	8	
9 %		1	2	3	4	5	6	7	8	9	0	
												* TOTALS
.....												
Eye		+	+	+	+	+	+	+	+	+	+	10
.....												
Harderian Gland		+	+	+	+	+	+	+	+	+	+	10
.....												
URINARY SYSTEM												
.....												
Kidney		+	+	+	+	+	+	+	+	+	+	10
.....												
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	10
.....												
SYSTEMIC LESIONS												
.....												
Multiple Organ		+	+	+	+	+	+	+	+	+	+	10

*** END OF REPORT ***

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