

**Experiment Number:** 20116-01  
**Test Type:** 90-DAY  
**Route:** DOSED WATER  
**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Aloe vera whole leaf extract (native)  
**CAS Number:** ALOEVLEAFEXT

**Date Report Requested:** 10/23/2014  
**Time Report Requested:** 13:05:26  
**First Dose M/F:** NA / NA  
**Lab:** NCTR

<b>C Number:</b>	C20116B
<b>Lock Date:</b>	Not Entered.
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

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First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Male CONTROL

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	1	1	1	1	2	2
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	1	1	1	1
	7	7	8	8	9	9	0	0	1	1	2	2
	1	2	1	2	1	2	1	2	1	2	1	2
	*TOTALS											

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Rectum	M	+	+	+	+	+	+	+	M	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	12
Liver	+	+	+	+	+	+	+	+	+	+	+	+	12
Inflammation, Chronic Active							1					2	2 1.5
Vacuolization Cytoplasmic	1									1	1		3 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	12
Acinus, Degeneration			1										1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	12

Cardiovascular System

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	12
Heart	+	+	+	+	+	+	+	+	+	+	+	+	12
Cardiomyopathy				1		2	1			1			4 1.3

Endocrine System

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Male  
CONTROL

DAY ON TEST	ANIMAL ID												*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	1	1	1	1	1	1	
	7	7	8	8	9	9	0	0	1	1	2	2	
	1	2	1	2	1	2	1	2	1	2	1	2	
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	12
Adrenal Medulla	+	+	+	+	+	+	M	+	+	+	+	+	11
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	12
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
Pituitary Gland	+	M	M	M	+	+	+	+	+	+	+	+	9
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>General Body System</b>													
NONE													
<b>Genital System</b>													
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	12
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
Inflammation, Suppurative	2	2		3	1		2			2	3		7 2.1
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	12
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	12
Testes	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Hematopoietic System</b>													
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	12
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	12
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	12
Hyperplasia, Lymphoid	3	2	2	2			2	3	2	2	1		9 2.1
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	12

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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Route: DOSED WATER

Species/Strain: Rat/F 344/N

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Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014

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First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Male  
CONTROL

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	ANIMAL ID	*TOTALS	
	1	1	1	1	1	1	1	1	1	1	1	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	0	0	1	1	1	1	1	1	1		
	7	7	8	8	9	9	0	0	1	1	2	2	1		
	1	2	1	2	1	2	1	2	1	2	1	2	1	1	1.0
Hyperplasia, Lymphoid	1														
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	12		
<b>Integumentary System</b>															
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	12		
Skin	+	+	+	+	+	+	+	+	+	+	+	+	12		
<b>Musculoskeletal System</b>															
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	12		
<b>Nervous System</b>															
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	12		
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	12		
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	12		
<b>Respiratory System</b>															
Lung	+	+	+	+	+	+	+	+	+	+	+	+	12		
Nose	+	+	+	+	+	+	+	+	+	+	+	+	12		
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	12		
<b>Special Senses System</b>															
Eye	+	+	+	+	+	+	+	+	+	+	+	+	12		
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	12		
<b>Urinary System</b>															

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First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Male  
CONTROL

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0			
	1	1	1	1	1	1	1	1	1	1	1	1			
	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	1	1	1	1	1	1			
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	1	1	1	1			
	7	7	8	8	9	9	0	0	1	1	2	2			
	1	2	1	2	1	2	1	2	1	2	1	2	<b>*TOTALS</b>		
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	12		
Nephropathy, Chronic	1	1	1	1	1	1	1	1	1	1	1	1	12	1.0	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	12		
Dilatation				4									1	4.0	

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First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Male  
1% WLN

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	1	1	1	1	1	
ANIMAL ID	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	1	1	
	3	3	4	4	5	5	6	7	7	8	8	
	1	2	1	2	1	2	2	1	2	1	2	*TOTALS

Alimentary System

Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	11	
Goblet Cell, Hyperplasia				1	3			2	2	2	3	6	2.2
Infiltration Cellular, Polymorphnuclr				1								1	1.0
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	11	
Goblet Cell, Hyperplasia	1	2	3	2	1	1	3	2	2	3		10	2.0
Infiltration Cellular, Polymorphnuclr				2			4		1	3		4	2.5
Liver	+	+	+	+	+	+	+	+	+	+	+	11	
Hepatodiaphragmatic Nodule				X								1	

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node, Mesenteric				+						+	+	3
------------------------	--	--	--	---	--	--	--	--	--	---	---	---

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First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Male  
1% WLN

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	*TOTALS	
	1	1	1	1	1	1	1	1	1	1	1		
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	1	1		
Hyperplasia, Lymphoid				4						4	4	3	4.0
Spleen	+	+	+	+	+	+	+	+	+	+	+	11	
Hematopoietic Cell Proliferation				1								1	1.0
Hyperplasia, Lymphoid									1			1	1.0
<b>Integumentary System</b>													
NONE													
<b>Musculoskeletal System</b>													
NONE													
<b>Nervous System</b>													
NONE													
<b>Respiratory System</b>													
NONE													
<b>Special Senses System</b>													
NONE													
<b>Urinary System</b>													
Kidney	+	+	+	+	+	+	+	+	+	+	+	11	
Nephropathy, Chronic	1	1	1	1	1	1	1	1	1	1	1	11	1.0

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Date Report Requested: 10/23/2014

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First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Male  
2% WLN

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	0	0	1	1	1	1	1	1	1	1	
	0	0	4	6	0	0	0	0	0	0	0	0	
	0	0	6	2	0	0	1	1	1	1	1	1	
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	
	1	1	2	2	3	3	4	4	5	5	6	6	
	1	2	1	2	1	2	1	2	1	2	1	2	*TOTALS

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	12
Goblet Cell, Hyperplasia	3	1		2	2	3	1	2	3	3	1	3	11 2.2
Infiltration Cellular, Polymorphnuclr					1			2	1			2	4 1.5
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	12
Goblet Cell, Hyperplasia	3	2		1	2	3	1	3	3	3	1	3	11 2.3
Infiltration Cellular, Polymorphnuclr	2				1			2	3				4 2.0
Intestine Large, Rectum	+	+	+	+	+	+	+	+	M	+	+	+	11
Anus, Epithelium, Hyperplasia, Squamous										3			1 3.0
Anus, Hyperplasia, Squamous											2	3	2 2.5
Anus, Inflammation, Chronic Active							1			2	2	2	4 1.8
Goblet Cell, Hyperplasia	3	1			2	3	2	1		2	1	3	9 2.0
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	12
Goblet Cell, Hyperplasia										1			1 1.0
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	12
Liver	+	+	+	+	+	+	+	+	+	+	+	+	12
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	12
Acinus, Degeneration						1							1 1.0
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	12

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F 344/N Rat Male  
2% WLN

DAY ON TEST	ANIMAL ID												*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	0	0	1	1	1	1	1	1	1	1	
	0	0	4	6	0	0	0	0	0	0	0	0	
	0	0	6	2	0	0	1	1	1	1	1	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	
	1	1	2	2	3	3	4	4	5	5	6	6	
	1	2	1	2	1	2	1	2	1	2	1	2	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Cardiovascular System</b>													
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	12
Heart	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Endocrine System</b>													
Adrenal Cortex	+	+	+	M	+	+	+	+	+	+	+	+	11
Adrenal Medulla	+	+	M	M	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	12
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>General Body System</b>													
NONE													
<b>Genital System</b>													
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	12
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
Inflammation, Suppurative	1	2	2	2	2		1		2	2	3		9 1.9
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	12
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	12
Hypoplasia			4	4									2 4.0
Testes	+	+	+	+	+	+	+	+	+	+	+	+	12

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First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Male  
2% WLN

DAY ON TEST	ANIMAL ID												*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	0	0	1	1	1	1	1	1	1	1	
	0	0	4	6	0	0	0	0	0	0	0	0	
	0	0	6	2	0	0	1	1	1	1	1	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	
	1	1	2	2	3	3	4	4	5	5	6	6	
	1	2	1	2	1	2	1	2	1	2	1	2	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Hematopoietic System</b>													
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	12
Hypocellularity			2	2									2 2.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	12
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	M	+	+	11
Degeneration, Cystic	3												1 3.0
Hyperplasia, Lymphoid	4	4		2	2		4	4	4		4	4	9 3.6
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	12
Hematopoietic Cell Proliferation					1								1 1.0
Thymus	+	+	M	+	+	+	+	+	+	+	+	+	11
Atrophy				3									1 3.0
<b>Integumentary System</b>													
Mammary Gland	+	+	M	M	M	+	+	+	+	M	+	+	8
Skin	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Musculoskeletal System</b>													
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Nervous System</b>													
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	12
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	12
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	12

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20116-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014

Time Report Requested: 13:05:27

First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Male  
2% WLN

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	0	0	1	1	1	1	1	1	1	1	
	0	0	4	6	0	0	0	0	0	0	0	0	
	0	0	6	2	0	0	1	1	1	1	1	1	
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	
	1	1	2	2	3	3	4	4	5	5	6	6	
	1	2	1	2	1	2	1	2	1	2	1	2	*TOTALS

Respiratory System

Lung	+	+	+	+	+	+	+	+	+	+	+	+	12	
Infiltration Cellular, Histiocyte							1							1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	+	+	12	
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	12	

Special Senses System

Eye	+	+	+	+	+	+	+	+	+	+	+	+	12	
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	12	
Infiltration Cellular, Lymphoid			2											1 2.0

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	12	
Nephropathy, Chronic	2	1	1	1	1	1	1	1	1	1	1	1	12	1.1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	12	

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20116-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014

Time Report Requested: 13:05:27

First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Male  
3% WLN

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	1	1	0	1	0	1	1	1
	0	3	3	3	0	0	3	0	3	0	0	0
	0	1	1	4	0	0	4	1	4	1	1	1
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	1	2	2	2	2	2	2	2	2	2	2
	9	9	0	0	1	1	2	2	3	3	4	4
	1	2	1	2	1	2	1	2	1	2	1	2
	*TOTALS											

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	12
Goblet Cell, Hyperplasia	2				3	3		3	2	3	4	3	8 2.9
Infiltration Cellular, Polymorphnuclr						2			2	2			3 2.0
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	12
Goblet Cell, Hyperplasia	3				3	3		2	3	2	3	3	8 2.8
Infiltration Cellular, Polymorphnuclr	3					2					3		3 2.7
Intestine Large, Rectum	+	+	+	+	M	+	+	+	+	+	+	+	11
Anus, Hyperplasia, Squamous									2		3	4	3 3.0
Anus, Inflammation, Chronic Active									2		3	3	3 2.7
Goblet Cell, Hyperplasia	2								3	2	2	3	5 2.4
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	12
Goblet Cell, Hyperplasia									2				1 2.0
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	12
Liver	+	+	+	+	+	+	+	+	+	+	+	+	12
Inflammation, Chronic Active										1			1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	12
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	12
Hyperkeratosis		2	2										2 2.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20116-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014

Time Report Requested: 13:05:27

First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Male  
3% WLN

DAY ON TEST	ANIMAL ID												*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	
	1	0	0	0	1	1	0	1	0	1	1	1	
	0	3	3	3	0	0	3	0	3	0	0	0	
	0	1	1	4	0	0	4	1	4	1	1	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	
	1	1	2	2	2	2	2	2	2	2	2	2	
	9	9	0	0	1	1	2	2	3	3	4	4	
	1	2	1	2	1	2	1	2	1	2	1	2	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Cardiovascular System</b>													
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	12
Heart	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Endocrine System</b>													
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	12
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	M	+	11
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	12
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
Pituitary Gland	M	+	+	+	+	+	+	+	+	+	M	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>General Body System</b>													
NONE													
<b>Genital System</b>													
Coagulating Gland				+			+		+				3
Hypoplasia				4			4		4				3 4.0
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	12
Hyospermia		4	4	4									3 4.0
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
Inflammation, Suppurative	2		4	2	3	2	3	1	2		1		9 2.2
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	12

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20116-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014

Time Report Requested: 13:05:27

First Dose M/F: NA / NA

Lab: NCTR

**F 344/N Rat Male**  
**3% WLN**

	DAY ON TEST														
	0	0	0	0	0	0	0	0	0	0	0	0			
	1	0	0	0	1	1	0	1	0	1	1	1			
	0	3	3	3	0	0	3	0	3	0	0	0			
	0	1	1	4	0	0	4	1	4	1	1	1			
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	2	2	2	2	2	2	2	2	2	2	2			
9	9	0	0	1	1	2	2	3	3	4	4	4			
1	2	1	2	1	2	1	2	1	2	1	2	2			
	<b>*TOTALS</b>														
Prostate	+	+	+	+	+	+	+	+	+	+	+	+	12		
Inflammation, Suppurative												1	1	1.0	
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	12		
Hypoplasia				4			4		4				3	4.0	
Testes	+	+	+	+	+	+	+	+	+	+	+	+	12		
Hypoplasia		3	3	3									3	3.0	
<b>Hematopoietic System</b>															
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	12		
Hypocellularity		2	3	3			2						4	2.5	
Lymph Node							+						1		
Inguinal, Hyperplasia, Lymphoid							2						1	2.0	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	12		
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	12		
Degeneration, Cystic								2					1	2.0	
Hyperplasia, Lymphoid	4				4	4		4	3	4	4	4	8	3.9	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	12		
Hematopoietic Cell Proliferation						1							1	1.0	
Hyperplasia, Lymphoid					1								1	1.0	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	12		
Atrophy		3	4				1		1				4	2.3	
<b>Integumentary System</b>															
Mammary Gland	+	+	+	+	+	+	+	+	M	+	+	+	11		

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20116-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014

Time Report Requested: 13:05:27

First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Male  
3% WLN

DAY ON TEST	ANIMAL ID												*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	
	1	0	0	0	1	1	0	1	0	1	1	1	
	0	3	3	3	0	0	3	0	3	0	0	0	
	0	1	1	4	0	0	4	1	4	1	1	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	
	1	1	2	2	2	2	2	2	2	2	2	2	
	9	9	0	0	1	1	2	2	3	3	4	4	
	1	2	1	2	1	2	1	2	1	2	1	2	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Musculoskeletal System</b>													
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Nervous System</b>													
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	12
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	12
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Respiratory System</b>													
Lung	+	+	+	+	+	+	+	+	+	+	+	+	12
Nose	+	+	+	+	+	+	+	+	+	+	+	+	12
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Special Senses System</b>													
Eye	+	+	+	+	+	+	+	+	+	+	+	+	12
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Urinary System</b>													
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	12
Nephropathy, Chronic	2				1	1		1		1	1	1	7 1.1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	12
Dilatation					4				4				2 4.0
Hemorrhage						2							1 2.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

**Experiment Number:** 20116-01

**Test Type:** 90-DAY

**Route:** DOSED WATER

**Species/Strain:** Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

**Test Compound:** Aloe vera whole leaf extract (native)

**CAS Number:** ALOEVLEAFEXT

**Date Report Requested:** 10/23/2014

**Time Report Requested:** 13:05:27

**First Dose M/F:** NA / NA

**Lab:** NCTR

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

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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M ..Missing tissue

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 20116-01  
 Test Type: 90-DAY  
 Route: DOSED WATER  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014  
 Time Report Requested: 13:05:27  
 First Dose M/F: NA / NA  
 Lab: NCTR

**F 344/N Rat Female  
 CONTROL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	1	1	1	1	1	1
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
	2	2	2	2	2	2	2	2	2	3	3	
	5	5	6	6	7	7	8	8	9	9	0	0
	1	2	1	2	1	2	1	2	1	2	1	2
	<b>*TOTALS</b>											

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	12
Goblet Cell, Hyperplasia							1						1 1.0
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Large, Rectum	+	+	+	+	+	+	+	+	M	+	+	+	11
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	12
Liver	+	+	+	+	+	+	+	+	+	+	+	+	12
Inflammation, Chronic Active									1				1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	12
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	12

**Cardiovascular System**

Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	12
Heart	+	+	+	+	+	+	+	+	+	+	+	+	12

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	12
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	12

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20116-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014

Time Report Requested: 13:05:27

First Dose M/F: NA / NA

Lab: NCTR

**F 344/N Rat Female  
CONTROL**

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	1	1	1	1	1	1	
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	
	2	2	2	2	2	2	2	2	2	2	3	3	
	5	5	6	6	7	7	8	8	9	9	0	0	
	1	2	1	2	1	2	1	2	1	2	1	2	<b>*TOTALS</b>
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	12
Parathyroid Gland	+	+	+	+	+	M	+	+	+	+	+	+	11
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>General Body System</b>													
NONE													
<b>Genital System</b>													
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
Infiltration Cellular, Lymphoid			2			2		3				1	4 2.0
Inflammation, Suppurative			2					3	1				4 2.0
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	12
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	12
Lumen, Dilatation	4	2	2										3 2.7
<b>Hematopoietic System</b>													
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	12
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	12
Hyperplasia, Lymphoid			2										1 2.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	12
Hyperplasia, Lymphoid	3	2	2		2	2	2			2	2	2	9 2.1
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	12
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	12

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20116-01  
 Test Type: 90-DAY  
 Route: DOSED WATER  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014  
 Time Report Requested: 13:05:27  
 First Dose M/F: NA / NA  
 Lab: NCTR

**F 344/N Rat Female  
 CONTROL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	1	1	1	1	1	1	
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	
	2	2	2	2	2	2	2	2	2	2	3	3	
	5	5	6	6	7	7	8	8	9	9	0	0	
	1	2	1	2	1	2	1	2	1	2	1	2	<b>*TOTALS</b>

**Integumentary System**

Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
Skin	+	+	+	+	+	+	+	+	+	+	+	+	12

**Musculoskeletal System**

Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	12
-------------	---	---	---	---	---	---	---	---	---	---	---	---	----

**Nervous System**

Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	12
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	12
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	12

**Respiratory System**

Lung	+	+	+	+	+	+	+	+	+	+	+	+	12
Nose	+	+	+	+	+	+	+	+	+	+	+	+	12
Trachea	+	+	+	+	+	+	+	+	+	+	+	+	12

**Special Senses System**

Eye	+	+	+	+	+	+	+	+	+	+	+	+	12
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
Infiltration Cellular, Lymphoid			1		1			1					3 1.0

**Urinary System**

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	12
--------	---	---	---	---	---	---	---	---	---	---	---	---	----

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20116-01  
 Test Type: 90-DAY  
 Route: DOSED WATER  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
 Test Compound: Aloe vera whole leaf extract (native)  
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014  
 Time Report Requested: 13:05:27  
 First Dose M/F: NA / NA  
 Lab: NCTR

**F 344/N Rat Female  
 CONTROL**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	1	1	1		
	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	1	1	1	1	1	1		
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		
	2	2	2	2	2	2	2	2	2	2	3	3		
	5	5	6	6	7	7	8	8	9	9	0	0		
	1	2	1	2	1	2	1	2	1	2	1	2		
	<b>*TOTALS</b>													
Renal Tubule, Mineralization	2	2	3	2	2	2	2	2	3	3	2	3	12	2.3
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	12	

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade  
 + ..Tissue examined microscopically  
 X ..Lesion present  
 I ..Insufficient tissue

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

1-4 ..Lesion qualified as:  
 1) Minimal 3) Moderate  
 2) Mild 4) Marked

Experiment Number: 20116-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014

Time Report Requested: 13:05:28

First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Female  
1% WLN

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	1	1	1	1	1	1
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
	3	3	3	3	3	3	4	4	4	4	4	4
	7	7	8	8	9	9	0	0	1	1	2	2
	1	2	1	2	1	2	1	2	1	2	1	2
	*TOTALS											

Alimentary System

Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	12
Goblet Cell, Hyperplasia	1		3	1			2		1		1		6 1.5
Infiltration Cellular, Polymorphnuclr									1				1 1.0
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	12
Goblet Cell, Hyperplasia	1	1	3	1		2	1		2		1		8 1.5
Infiltration Cellular, Polymorphnuclr						2			1				2 1.5
Liver	+	+	+	+	+	+	+	+	+	+	+	+	12
Deformity				X									1
Vacuolization Cytoplasmic									1				1 1.0

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Uterus				+	+								2
Lumen, Dilatation				4	4								2 4.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20116-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014

Time Report Requested: 13:05:28

First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Female  
1% WLN

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	1	1	1	1	1	1	
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	
	3	3	3	3	3	3	4	4	4	4	4	4	
	7	7	8	8	9	9	0	0	1	1	2	2	
	1	2	1	2	1	2	1	2	1	2	1	2	*TOTALS

Hematopoietic System

Lymph Node, Mesenteric													+	+	4
Hyperplasia, Lymphoid													4	4	4 4.0
Spleen	+	+	+	+	+	+	+	+	+	+	+	+			12
Inflammation, Chronic Active	4														1 4.0

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	+	+			12
Nephropathy, Chronic	1	1			1	1		1	1	1					7 1.0
Renal Tubule, Mineralization	2	2	2	3	2	2	3	2	2	3	2	2			12 2.3

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20116-01  
 Test Type: 90-DAY  
 Route: DOSED WATER  
 Species/Strain: Rat/F 344/N

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Aloe vera whole leaf extract (native)  
 CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014  
 Time Report Requested: 13:05:28  
 First Dose M/F: NA / NA  
 Lab: NCTR

**F 344/N Rat Female**  
**2% WLN**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	0	0	1	0	1	0	1	1	1
	0	0	0	3	4	0	3	0	3	0	0	0
	0	0	0	1	6	0	1	1	1	1	1	1
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
	4	4	4	4	4	4	4	4	4	4	4	4
	3	3	4	4	5	5	6	6	7	7	8	8
	1	2	1	2	1	2	1	2	1	2	1	2
	<b>*TOTALS</b>											

**Alimentary System**

Esophagus	+	+	+	+	M	+	+	+	+	+	+	+	11
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	+	12
Goblet Cell, Hyperplasia	3	1	4			3		1		3	1	2	8 2.3
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	+	12
Goblet Cell, Hyperplasia	2	2	4		2	2		3		3	1	3	9 2.4
Infiltration Cellular, Lymphoid					2								1 2.0
Infiltration Cellular, Polymorphnuclr	1		1					2				2	4 1.5
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	+	12
Anus, Hyperplasia, Squamous	3									2			2 2.5
Anus, Inflammation, Chronic Active	3									2			2 2.5
Goblet Cell, Hyperplasia	3	1				1		1		2	1	2	7 1.6
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	+	12
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	+	12
Liver	+	+	+	+	+	+	+	+	+	+	+	+	12
Pancreas	+	+	+	+	+	+	+	+	+	+	+	+	12
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	+	12
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	+	12
Hyperkeratosis				1			2						2 1.5
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	12

**Cardiovascular System**

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20116-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014

Time Report Requested: 13:05:28

First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Female  
2% WLN

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	0	0	1	0	1	0	1	1	1	
	0	0	0	3	4	0	3	0	3	0	0	0	
	0	0	0	1	6	0	1	1	1	1	1	1	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	4	4	
	3	3	4	4	5	5	6	6	7	7	8	8	
	1	2	1	2	1	2	1	2	1	2	1	2	
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	12
Heart	+	+	+	+	+	+	+	+	+	+	+	+	12
Inflammation, Chronic Active						4							1 4.0
Polyarteritis						4							1 4.0
<b>Endocrine System</b>													
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	12
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	12
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	12
Parathyroid Gland	+	+	+	M	M	+	+	+	+	+	+	+	10
Pituitary Gland	+	+	+	+	+	+	+	+	M	+	+	+	11
Thyroid Gland	+	+	+	+	M	+	+	+	+	+	+	+	11
<b>General Body System</b>													
NONE													
<b>Genital System</b>													
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
Duct, Dilatation	2						4						2 3.0
Inflammation, Chronic Active									2				1 2.0
Inflammation, Suppurative	2				2		4	2			1	3	6 2.3
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	12
Hypoplasia					2				3				2 2.5
Interstitial Cell, Hyperplasia										1	1		2 1.0

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 20116-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014

Time Report Requested: 13:05:28

First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Female  
2% WLN

	DAY ON TEST													
	0	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	0	0	1	0	1	0	1	1	1		
	0	0	0	3	4	0	3	0	3	0	0	0		
	0	0	0	1	6	0	1	1	1	1	1	1		
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		
	4	4	4	4	4	4	4	4	4	4	4	4		
	3	3	4	4	5	5	6	6	7	7	8	8		
	1	2	1	2	1	2	1	2	1	2	1	2	<b>*TOTALS</b>	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	12	
Hypoplasia						2			2				2	2.0
Lumen, Dilatation			3										1	3.0
<b>Hematopoietic System</b>														
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	12	
Hypocellularity				4	2		3		4				4	3.3
Lymph Node							+						1	
Lumbar, Hyperplasia, Lymphoid							1						1	1.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+	+	12	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	+	+	12	
Degeneration, Cystic			4										1	4.0
Hyperplasia, Lymphoid	4	4	3			3		4		4	4	3	8	3.6
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	12	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	12	
Atrophy				4	2	2				3			4	2.8
<b>Integumentary System</b>														
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	12	
Skin	+	+	+	+	+	+	+	+	+	+	+	+	12	
<b>Musculoskeletal System</b>														
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	12	
<b>Nervous System</b>														

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20116-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014

Time Report Requested: 13:05:28

First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Female  
2% WLN

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	0	0	1	0	1	0	1	1	1	
	0	0	0	3	4	0	3	0	3	0	0	0	
	0	0	0	1	6	0	1	1	1	1	1	1	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	
	4	4	4	4	4	4	4	4	4	4	4	4	
	3	3	4	4	5	5	6	7	7	8	8	8	
	1	2	1	2	1	2	1	2	1	2	1	2	
Brain, Brain Stem	+	+	+	+	+	+	+	+	+	+	+	+	12
Brain, Cerebellum	+	+	+	+	+	+	+	+	+	+	+	+	12
Brain, Cerebrum	+	+	+	+	+	+	+	+	+	+	+	+	12
<b>Respiratory System</b>													
Lung	+	+	+	+	+	+	+	+	+	+	+	+	12
Nose	+	+	+	+	+	+	+	+	+	+	+	+	12
Trachea	+	+	+	+	M	+	+	+	+	+	+	+	11
<b>Special Senses System</b>													
Eye	+	+	+	+	+	+	+	+	+	+	+	+	12
Harderian Gland	+	+	+	+	+	+	+	+	+	+	+	+	12
Infiltration Cellular, Lymphoid	2									1			2 1.5
<b>Urinary System</b>													
Kidney	+	+	+	+	+	+	+	+	+	+	+	+	12
Nephropathy, Chronic		1						1		1			3 1.0
Renal Tubule, Mineralization	3	2	2		2	2	2	3		2		3	9 2.3
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	+	+	12

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20116-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014

Time Report Requested: 13:05:28

First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Female  
3% WLN

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	0	0	1	0	0	0	0	0	0
	0	0	0	3	2	0	2	3	3	3	3	3
	0	0	0	1	6	0	6	1	1	1	4	4
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
	3	3	3	3	3	3	3	3	3	3	3	3
	1	1	2	2	3	3	4	4	5	5	6	6
	1	2	1	2	1	2	1	2	1	2	1	2
	*TOTALS											

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	+	11
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	+	11
Goblet Cell, Hyperplasia	3	1	2		3							4 2.3
Infiltration Cellular, Polymorphnuclr	1		2									2 1.5
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	+	11
Goblet Cell, Hyperplasia	3	2	3		4							4 3.0
Infiltration Cellular, Polymorphnuclr					3							1 3.0
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	+	11
Anus, Epithelium, Hyperplasia, Squamous	3											1 3.0
Anus, Inflammation, Chronic Active	2											1 2.0
Goblet Cell, Hyperplasia	3		1		1							3 1.7
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	+	11
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	+	11
Goblet Cell, Hyperplasia			2									1 2.0
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	+	11
Liver	+	+	+	+	+	+	+	+	+	+	+	11
Hepatodiaphragmatic Nodule										X		1
Inflammation, Chronic Active		1										1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	+	11
Salivary Glands	+	+	+	+	+	+	+	+	+	+	+	11
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	+	11

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20116-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014

Time Report Requested: 13:05:28

First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Female  
3% WLN

	DAY ON TEST														
	0	0	0	0	0	0	0	0	0	0	0	0			
	1	1	1	0	0	1	0	0	0	0	0	0			
	0	0	0	3	2	0	2	3	3	3	3	3			
	0	0	0	1	6	0	6	1	1	1	4	4			
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			
	3	3	3	3	3	3	3	3	3	3	3	3			
	1	1	2	2	3	3	4	4	5	5	6	6			
	1	2	1	2	1	2	1	2	1	2	1	2			
													<b>*TOTALS</b>		
Hyperkeratosis													1	2	1.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	+	+	11		
<b>Cardiovascular System</b>															
Blood Vessel	+	+	+	+	+	+	+	+	+	+	+	+	11		
Heart	+	+	+	+	+	+	+	+	+	+	+	+	11		
<b>Endocrine System</b>															
Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	11		
Adrenal Medulla	+	+	+	M	+	+	+	+	+	+	+	+	10		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+	+	11		
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	11		
Pituitary Gland	+	M	+	+	+	+	+	+	+	+	+	+	10		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	11		
<b>General Body System</b>															
NONE															
<b>Genital System</b>															
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	+	+	11		
Infiltration Cellular, Lymphoid				1									1	1.0	
Inflammation, Suppurative	3	2	2	1	1	4	3	3	2				9	2.3	
Ovary	+	+	+	+	+	+	+	+	+	+	+	+	11		
Hypoplasia							3	1	3	3	3	5	2.6		
Interstit Cell, Hyperplasia				2									1	2.0	

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20116-01

Test Type: 90-DAY

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 10/23/2014

Time Report Requested: 13:05:28

First Dose M/F: NA / NA

Lab: NCTR

F 344/N Rat Female  
3% WLN

	DAY ON TEST													
	0	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	0	0	1	0	0	0	0	0	0		
	0	0	0	3	2	0	2	3	3	3	3	3		
	0	0	0	1	6	0	6	1	1	1	4	4		
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		
	3	3	3	3	3	3	3	3	3	3	3	3		
	1	1	2	2	3	3	4	4	5	5	6	6		
	1	2	1	2	1	2	1	2	1	2	1	2	*TOTALS	
Interstit Cell, Hyperplasia				2									1	2.0
Uterus	+	+	+	+		+	+	+	+	+	+	+	11	
Hypoplasia							3	1	3		3	3	5	2.6
Vagina								+					1	
Lumen, Dilatation							3						1	3.0
<b>Hematopoietic System</b>														
Bone Marrow	+	+	+	+		+	+	+	+	+	+	+	11	
Hypocellularity				3			3	3	3	4	3	2	7	3.0
Lymph Node, Mandibular	+	+	+	+		+	+	+	+	+	+	+	11	
Lymph Node, Mesenteric	+	+	+	+		+	+	M	+	+	+	+	10	
Hyperplasia, Lymphoid	4	2	4			4							4	3.5
Spleen	+	+	+	+		+	+	+	+	+	+	+	11	
Thymus	+	+	+	+		+	M	+	+	+	+	+	10	
Atrophy				2				4	4	3	2	2	6	2.8
<b>Integumentary System</b>														
Mammary Gland	+	+	+	+		+	M	+	M	+	M	+	8	
Skin	+	+	+	+		+	+	+	+	+	+	+	11	
<b>Musculoskeletal System</b>														
Bone, Femur	+	+	+	+		+	+	+	+	+	+	+	11	
<b>Nervous System</b>														
Brain, Brain Stem	+	+	+	+		+	+	+	+	+	+	+	11	

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Species/Strain: Rat/F 344/N

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Lab: NCTR

F 344/N Rat Female  
3% WLN

	DAY ON TEST												
	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	0	0	1	0	0	0	0	0	0	
	0	0	0	3	2	0	2	3	3	3	3	3	
	0	0	0	1	6	0	6	1	1	1	4	4	
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	
	3	3	3	3	3	3	3	3	3	3	3	3	
	1	1	1	2	2	3	3	4	4	5	5	6	
	1	2	1	2	1	2	1	2	1	2	1	2	
													<b>*TOTALS</b>
Brain, Cerebellum	+	+	+	+		+	+	+	+	+	+	+	11
Brain, Cerebrum	+	+	+	+		+	+	+	+	+	+	+	11
<b>Respiratory System</b>													
Lung	+	+	+	+		+	+	+	+	+	+	+	11
Nose	+	+	+	+		+	+	+	+	+	+	+	11
Trachea	+	+	+	+		+	+	+	+	+	+	+	11
<b>Special Senses System</b>													
Eye	+	+	+	+		+	+	+	+	+	+	+	11
Harderian Gland	+	+	+	+		+	+	+	+	+	+	+	11
<b>Urinary System</b>													
Kidney	+	+	+	+		+	+	+	+	+	+	+	11
Nephropathy, Chronic				1									1 1.0
Renal Tubule, Mineralization	2	2	2	1		2		2		3			7 2.0
Urinary Bladder	+	+	+	+		+	+	+	+	+	+	+	11

\*\* END OF REPORT \*\*

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