

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

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

Aloe vera whole leaf extract (native)

CAS Number: ALOEVLEAFEXT

Date Report Requested: 09/06/2016

Time Report Requested: 10:34:58

First Dose M/F: 11/16/03 / 11/16/03

Lab: NCTR

NTP Study Number: C20116B
Lock Date: Not Entered.
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: NONE

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FISCHER 344 RATS MALE

CONTROL

1% WLN

2% WLN

3% WLN

Disposition Summary

Animals Initially In Study	12	11	12	12
Early Deaths				
Moribund Sacrifice			2	5
Survivors				
Terminal Sacrifice	12	11	10	7
Animals Examined Microscopically	12	11	12	12

ALIMENTARY SYSTEM

Esophagus	(12)	(0)	(12)	(12)
Intestine Large, Cecum	(12)	(11)	(12)	(12)
Infiltration Cellular, Polymorphonuclear		1 (9%)	4 (33%)	3 (25%)
Goblet Cell, Hyperplasia		6 (55%)	11 (92%)	8 (67%)
Intestine Large, Colon	(12)	(11)	(12)	(12)
Infiltration Cellular, Polymorphonuclear		4 (36%)	4 (33%)	3 (25%)
Goblet Cell, Hyperplasia		10 (91%)	11 (92%)	8 (67%)
Intestine Large, Rectum	(10)	(0)	(11)	(11)
Anus, Hyperplasia, Squamous			2 (18%)	3 (27%)
Anus, Inflammation, Chronic Active			4 (36%)	3 (27%)
Anus, Epithelium, Hyperplasia, Squamous			1 (9%)	
Goblet Cell, Hyperplasia			9 (82%)	5 (45%)
Intestine Small, Duodenum	(12)	(0)	(12)	(12)
Intestine Small, Ileum	(12)	(0)	(12)	(12)
Goblet Cell, Hyperplasia			1 (8%)	1 (8%)
Intestine Small, Jejunum	(12)	(0)	(12)	(12)
Liver	(12)	(11)	(12)	(12)
Hepatodiaphragmatic Nodule		1 (9%)		
Inflammation, Chronic Active	2 (17%)			1 (8%)
Vacuolization Cytoplasmic	3 (25%)			
Pancreas	(12)	(0)	(12)	(12)
Acinus, Degeneration	1 (8%)		1 (8%)	
Salivary Glands	(12)	(0)	(12)	(12)
Stomach, Forestomach	(12)	(0)	(12)	(12)
Hyperkeratosis				2 (17%)

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

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FISCHER 344 RATS MALE	CONTROL	1% WLN	2% WLN	3% WLN
Stomach, Glandular	(12)	(0)	(12)	(12)
<hr/>				
CARDIOVASCULAR SYSTEM				
Blood Vessel	(12)	(0)	(12)	(12)
Heart	(12)	(0)	(12)	(12)
Cardiomyopathy	4 (33%)			
<hr/>				
ENDOCRINE SYSTEM				
Adrenal Cortex	(12)	(0)	(11)	(12)
Adrenal Medulla	(11)	(0)	(10)	(11)
Islets, Pancreatic	(12)	(0)	(12)	(12)
Parathyroid Gland	(12)	(0)	(12)	(12)
Pituitary Gland	(9)	(0)	(12)	(10)
Thyroid Gland	(12)	(0)	(12)	(12)
<hr/>				
GENERAL BODY SYSTEM				
None				
<hr/>				
GENITAL SYSTEM				
Coagulating Gland	(0)	(0)	(0)	(3)
Hypoplasia				3 (100%)
Epididymis	(12)	(0)	(12)	(12)
Hypospermia				3 (25%)
Preputial Gland	(12)	(0)	(12)	(12)
Inflammation, Suppurative	7 (58%)		9 (75%)	9 (75%)
Prostate	(12)	(0)	(12)	(12)
Inflammation, Suppurative				1 (8%)
Seminal Vesicle	(12)	(0)	(12)	(12)
Hypoplasia			2 (17%)	3 (25%)

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FISCHER 344 RATS MALE	CONTROL	1% WLN	2% WLN	3% WLN
Testes	(12)	(0)	(12)	(12)
Hypoplasia				3 (25%)
<hr/>				
HEMATOPOIETIC SYSTEM				
Bone Marrow	(12)	(0)	(12)	(12)
Hypocellularity			2 (17%)	4 (33%)
Lymph Node	(0)	(0)	(0)	(1)
Inguinal, Hyperplasia, Lymphoid				1 (100%)
Lymph Node, Mandibular	(12)	(0)	(12)	(12)
Lymph Node, Mesenteric	(12)	(3)	(11)	(12)
Degeneration, Cystic			1 (9%)	1 (8%)
Hyperplasia, Lymphoid	9 (75%)	3 (100%)	9 (82%)	8 (67%)
Spleen	(12)	(11)	(12)	(12)
Hematopoietic Cell Proliferation		1 (9%)	1 (8%)	1 (8%)
Hyperplasia, Lymphoid	1 (8%)	1 (9%)		1 (8%)
Thymus	(12)	(0)	(11)	(12)
Atrophy			1 (9%)	4 (33%)
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INTEGUMENTARY SYSTEM				
Mammary Gland	(12)	(0)	(8)	(11)
Skin	(12)	(0)	(12)	(12)
<hr/>				
MUSCULOSKELETAL SYSTEM				
Bone, Femur	(12)	(0)	(12)	(12)
<hr/>				
NERVOUS SYSTEM				
Brain, Brain Stem	(12)	(0)	(12)	(12)
Brain, Cerebellum	(12)	(0)	(12)	(12)
Brain, Cerebrum	(12)	(0)	(12)	(12)

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

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FISCHER 344 RATS MALE	CONTROL	1% WLN	2% WLN	3% WLN
<hr/>				
RESPIRATORY SYSTEM				
Lung	(12)	(0)	(12)	(12)
Infiltration Cellular, Histiocyte			1 (8%)	
Nose	(12)	(0)	(12)	(12)
Trachea	(12)	(0)	(12)	(12)
<hr/>				
SPECIAL SENSES SYSTEM				
Eye	(12)	(0)	(12)	(12)
Harderian Gland	(12)	(0)	(12)	(12)
Infiltration Cellular, Lymphoid			1 (8%)	
<hr/>				
URINARY SYSTEM				
Kidney	(12)	(11)	(12)	(12)
Nephropathy, Chronic	12 (100%)	11 (100%)	12 (100%)	7 (58%)
Urinary Bladder	(12)	(0)	(12)	(12)
Dilatation	1 (8%)			2 (17%)
Hemorrhage				1 (8%)

*** END OF MALE ***

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FISCHER 344 RATS FEMALE

CONTROL

1% WLN

2% WLN

3% WLN

Disposition Summary

	CONTROL	1% WLN	2% WLN	3% WLN
Animals Initially In Study	12	12	12	12
Early Deaths				
Moribund Sacrifice			4	7
Natural Death				1
Survivors				
Terminal Sacrifice	12	12	8	4
Animals Examined Microscopically	12	12	12	11

ALIMENTARY SYSTEM

	CONTROL	1% WLN	2% WLN	3% WLN
Esophagus	(12)	(0)	(11)	(11)
Intestine Large, Cecum	(12)	(12)	(12)	(11)
Infiltration Cellular, Polymorphonuclear		1 (8%)		2 (18%)
Goblet Cell, Hyperplasia	1 (8%)	6 (50%)	8 (67%)	4 (36%)
Intestine Large, Colon	(12)	(12)	(12)	(11)
Infiltration Cellular, Lymphoid			1 (8%)	
Infiltration Cellular, Polymorphonuclear		2 (17%)	4 (33%)	1 (9%)
Goblet Cell, Hyperplasia		8 (67%)	9 (75%)	4 (36%)
Intestine Large, Rectum	(11)	(0)	(12)	(11)
Anus, Hyperplasia, Squamous			2 (17%)	
Anus, Inflammation, Chronic Active			2 (17%)	1 (9%)
Anus, Epithelium, Hyperplasia, Squamous				1 (9%)
Goblet Cell, Hyperplasia			7 (58%)	3 (27%)
Intestine Small, Duodenum	(12)	(0)	(12)	(11)
Intestine Small, Ileum	(12)	(0)	(12)	(11)
Goblet Cell, Hyperplasia				1 (9%)
Intestine Small, Jejunum	(12)	(0)	(12)	(11)
Liver	(12)	(12)	(12)	(11)
Deformity		1 (8%)		
Hepatodiaphragmatic Nodule				1 (9%)
Inflammation, Chronic Active	1 (8%)			1 (9%)
Vacuolization Cytoplasmic		1 (8%)		
Pancreas	(12)	(0)	(12)	(11)
Salivary Glands	(12)	(0)	(12)	(11)

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FISCHER 344 RATS FEMALE	CONTROL	1% WLN	2% WLN	3% WLN
Stomach, Forestomach	(12)	(0)	(12)	(11)
Hyperkeratosis			2 (17%)	2 (18%)
Stomach, Glandular	(12)	(0)	(12)	(11)
<hr/>				
CARDIOVASCULAR SYSTEM				
Blood Vessel	(12)	(0)	(12)	(11)
Heart	(12)	(0)	(12)	(11)
Inflammation, Chronic Active			1 (8%)	
Polyarteritis			1 (8%)	
<hr/>				
ENDOCRINE SYSTEM				
Adrenal Cortex	(12)	(0)	(12)	(11)
Adrenal Medulla	(12)	(0)	(12)	(10)
Islets, Pancreatic	(12)	(0)	(12)	(11)
Parathyroid Gland	(11)	(0)	(10)	(11)
Pituitary Gland	(12)	(0)	(11)	(10)
Thyroid Gland	(12)	(0)	(11)	(11)
<hr/>				
GENERAL BODY SYSTEM				
None				
<hr/>				
GENITAL SYSTEM				
Clitoral Gland	(12)	(0)	(12)	(11)
Infiltration Cellular, Lymphoid	4 (33%)			1 (9%)
Inflammation, Suppurative	4 (33%)		6 (50%)	9 (82%)
Inflammation, Chronic Active			1 (8%)	
Duct, Dilatation			2 (17%)	
Ovary	(12)	(0)	(12)	(11)
Hypoplasia			2 (17%)	5 (45%)

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FISCHER 344 RATS FEMALE	CONTROL	1% WLN	2% WLN	3% WLN
Interstitial Cell, Hyperplasia			2 (17%)	1 (9%)
Uterus	(12)	(2)	(12)	(11)
Hypoplasia			2 (17%)	5 (45%)
Lumen, Dilatation	3 (25%)	2 (100%)	1 (8%)	
Vagina	(0)	(0)	(0)	(1)
Lumen, Dilatation				1 (100%)
<hr/>				
HEMATOPOIETIC SYSTEM				
Bone Marrow	(12)	(0)	(12)	(11)
Hypocellularity			4 (33%)	7 (64%)
Lymph Node	(0)	(0)	(1)	(0)
Lumbar, Hyperplasia, Lymphoid			1 (100%)	
Lymph Node, Mandibular	(12)	(0)	(12)	(11)
Hyperplasia, Lymphoid	1 (8%)			
Lymph Node, Mesenteric	(12)	(4)	(12)	(10)
Degeneration, Cystic			1 (8%)	
Hyperplasia, Lymphoid	9 (75%)	4 (100%)	8 (67%)	4 (40%)
Spleen	(12)	(12)	(12)	(11)
Inflammation, Chronic Active		1 (8%)		
Thymus	(12)	(0)	(12)	(10)
Atrophy			4 (33%)	6 (60%)
<hr/>				
INTEGUMENTARY SYSTEM				
Mammary Gland	(12)	(0)	(12)	(8)
Skin	(12)	(0)	(12)	(11)
<hr/>				
MUSCULOSKELETAL SYSTEM				
Bone, Femur	(12)	(0)	(12)	(11)

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FISCHER 344 RATS FEMALE	CONTROL	1% WLN	2% WLN	3% WLN
<hr/>				
NERVOUS SYSTEM				
Brain, Brain Stem	(12)	(0)	(12)	(11)
Brain, Cerebellum	(12)	(0)	(12)	(11)
Brain, Cerebrum	(12)	(0)	(12)	(11)
<hr/>				
RESPIRATORY SYSTEM				
Lung	(12)	(0)	(12)	(11)
Nose	(12)	(0)	(12)	(11)
Trachea	(12)	(0)	(11)	(11)
<hr/>				
SPECIAL SENSES SYSTEM				
Eye	(12)	(0)	(12)	(11)
Harderian Gland	(12)	(0)	(12)	(11)
Infiltration Cellular, Lymphoid	3 (25%)		2 (17%)	
<hr/>				
URINARY SYSTEM				
Kidney	(12)	(12)	(12)	(11)
Nephropathy, Chronic		7 (58%)	3 (25%)	1 (9%)
Renal Tubule, Mineralization	12 (100%)	12 (100%)	9 (75%)	7 (64%)
Urinary Bladder	(12)	(0)	(12)	(11)

*** END OF REPORT ***

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