

**TDMS No.** 20307 - 03

**Test Type:** 90-DAY

**Route:** SKIN APPLICATION

**Species/Strain:** RATS/F344/N Tac

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**  
Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E  
Super)

**CAS Number:** 54464-57-2

**Date Report Requested:** 07/27/2011

**Time Report Requested:** 12:19:39

**First Dose M/F:** 12/12/06 / 12/13/06

**Lab:** MBA

F1\_RD

**C Number:** C20307  
**Lock Date:** 12/23/2009  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 2.4.2.1\_003  
**PWG Approval Date:** NONE

Fischer 344-Taconic RATS MALE	untreated	vehicle	6.25%	12.5%	25%	50%
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## Disposition Summary

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10

## ALIMENTARY SYSTEM

Esophagus	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Large, Cecum	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Large, Colon	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Large, Rectum	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Small, Duodenum	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Small, Ileum	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Small, Jejunum	(10)	(10)	(0)	(0)	(0)	(0)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic	1 (10%)					
Oral Mucosa	(10)	(10)	(0)	(0)	(0)	(0)
Pancreas	(10)	(10)	(0)	(0)	(0)	(0)
Acinus, Atrophy		1 (10%)				
Salivary Glands	(10)	(10)	(0)	(0)	(0)	(0)
Stomach, Forestomach	(10)	(10)	(0)	(0)	(0)	(0)
Stomach, Glandular	(10)	(10)	(0)	(0)	(0)	(0)
Tongue	(10)	(10)	(0)	(0)	(0)	(0)

## CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(10)	(0)	(0)	(0)	(0)
Heart	(10)	(10)	(0)	(0)	(0)	(0)
Cardiomyopathy	1 (10%)	1 (10%)				
Infiltration Cellular, Histiocyte, Focal						
Inflammation, Chronic	1 (10%)					

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

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<b>Fischer 344-Taconic RATS MALE</b>	<b>untreated</b>	<b>vehicle</b>	<b>6.25%</b>	<b>12.5%</b>	<b>25%</b>	<b>50%</b>
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**ENDOCRINE SYSTEM**

Adrenal Cortex	(10)	(10)	(0)	(0)	(0)	(0)
Adrenal Medulla	(10)	(10)	(0)	(0)	(0)	(0)
Parathyroid Gland	(10)	(10)	(0)	(0)	(0)	(0)
Pituitary Gland	(9)	(8)	(0)	(0)	(0)	(0)
Thyroid Gland	(10)	(10)	(0)	(0)	(0)	(0)

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**GENERAL BODY SYSTEM**

None

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**GENITAL SYSTEM**

Epididymis	(10)	(10)	(0)	(0)	(0)	(0)
Preputial Gland	(9)	(8)	(0)	(0)	(0)	(0)
Inflammation, Chronic	2 (22%)					
Prostate	(10)	(10)	(0)	(0)	(0)	(0)
Seminal Vesicle	(10)	(10)	(0)	(0)	(0)	(0)
Testes	(10)	(10)	(0)	(0)	(0)	(0)

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**HEMATOPOIETIC SYSTEM**

Bone Marrow	(10)	(10)	(0)	(0)	(0)	(0)
Lymph Node	(0)	(0)	(0)	(0)	(0)	(0)
Mediastinal, Hyperplasia, Lymphoid, Diffuse						
Lymph Node, Mandibular	(10)	(10)	(0)	(0)	(0)	(0)
Lymph Node, Mesenteric	(10)	(10)	(0)	(0)	(0)	(0)
Infiltration Cellular, Histiocyte	1 (10%)	1 (10%)				
Spleen	(10)	(10)	(0)	(0)	(0)	(0)
Thymus	(10)	(10)	(0)	(0)	(0)	(0)

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

**Fischer 344-Taconic RATS MALE**

untreated

vehicle

6.25%

12.5%

25%

50%

**INTEGUMENTARY SYSTEM**

Mammary Gland	(10)	(10)	(0)	(0)	(0)	(0)
Skin	(10)	(10)	(10)	(10)	(10)	(10)
Control, Hyperplasia			1 (10%)			
Control, Inflammation			1 (10%)			
Skin, Site Of Application	(10)	(10)	(10)	(10)	(10)	(10)
Hyperkeratosis			1 (10%)	3 (30%)	4 (40%)	5 (50%)
Hyperplasia			2 (20%)	4 (40%)	5 (50%)	8 (80%)
Inflammation						

**MUSCULOSKELETAL SYSTEM**

Bone	(10)	(10)	(0)	(0)	(0)	(0)
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**NERVOUS SYSTEM**

Brain	(10)	(10)	(0)	(0)	(0)	(0)
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**RESPIRATORY SYSTEM**

Larynx	(10)	(10)	(0)	(0)	(0)	(0)
Inflammation, Neutrophil	1 (10%)					
Lung	(10)	(10)	(0)	(0)	(0)	(0)
Hemorrhage	1 (10%)					
Infiltration Cellular, Histiocyte						
Inflammation, Chronic	4 (40%)	5 (50%)				
Interstitial, Inflammation, Focal	2 (20%)	1 (10%)				
Nose	(10)	(10)	(0)	(0)	(0)	(0)
Trachea	(10)	(10)	(0)	(0)	(0)	(0)

**SPECIAL SENSES SYSTEM**

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

TDMS No. 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**  
Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

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First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

Fischer 344-Taconic RATS MALE	untreated	vehicle	6.25%	12.5%	25%	50%
Eye	(10)	(10)	(0)	(0)	(0)	(0)
Harderian Gland	(10)	(10)	(0)	(0)	(0)	(0)
<b>URINARY SYSTEM</b>						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Nephropathy	10 (100%)	8 (80%)	9 (90%)	10 (100%)	10 (100%)	10 (100%)
Renal Tubule, Casts	3 (30%)		1 (10%)	1 (10%)		1 (10%)
Urinary Bladder	(10)	(10)	(0)	(0)	(0)	(0)

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

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Lab: MBA

Fischer 344-Taconic RATS MALE

100%

### Disposition Summary

Animals Initially In Study	10
Early Deaths	
Survivors	
Terminal Sacrifice	10
Animals Examined Microscopically	10

### 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)
Inflammation, Chronic	
Oral Mucosa	(10)
Pancreas	(10)
Acinus, Atrophy	
Salivary Glands	(10)
Stomach, Forestomach	(10)
Stomach, Glandular	(10)
Tongue	(10)

### CARDIOVASCULAR SYSTEM

Blood Vessel	(9)
Heart	(10)
Cardiomyopathy	1 (10%)
Infiltration Cellular, Histiocyte, Focal	1 (10%)
Inflammation, Chronic	

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Fischer 344-Taconic RATS MALE

100%

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#### ENDOCRINE SYSTEM

Adrenal Cortex	(10)
Adrenal Medulla	(10)
Parathyroid Gland	(10)
Pituitary Gland	(9)
Thyroid Gland	(10)

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#### GENERAL BODY SYSTEM

None

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#### GENITAL SYSTEM

Epididymis	(10)
Preputial Gland	(9)
Inflammation, Chronic	1 (11%)
Prostate	(10)
Seminal Vesicle	(10)
Testes	(10)

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#### HEMATOPOIETIC SYSTEM

Bone Marrow	(10)
Lymph Node	(1)
Mediastinal, Hyperplasia, Lymphoid, Diffuse	1 (100%)
Lymph Node, Mandibular	(10)
Lymph Node, Mesenteric	(10)
Infiltration Cellular, Histiocyte	
Spleen	(10)
Thymus	(10)

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Fischer 344-Taconic RATS MALE

100%

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INTEGUMENTARY SYSTEM

Mammary Gland	(10)
Skin	(10)
Control, Hyperplasia	
Control, Inflammation	
Skin, Site Of Application	(10)
Hyperkeratosis	8 (80%)
Hyperplasia	10 (100%)
Inflammation	1 (10%)

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MUSCULOSKELETAL SYSTEM

Bone	(10)
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NERVOUS SYSTEM

Brain	(10)
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RESPIRATORY SYSTEM

Larynx	(10)
Inflammation, Neutrophil	
Lung	(10)
Hemorrhage	
Infiltration Cellular, Histiocyte	1 (10%)
Inflammation, Chronic	5 (50%)
Interstitial, Inflammation, Focal	
Nose	(10)
Trachea	(10)

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SPECIAL SENSES SYSTEM

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



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Fischer 344-Taconic RATS MALE

100%

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Eye	(10)
Harderian Gland	(10)

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URINARY SYSTEM

Kidney	(10)
Nephropathy	10 (100%)
Renal Tubule, Casts	
Urinary Bladder	(10)

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

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

Fischer 344-Taconic RATS FEMALE	untreated	vehicle	6.25%	12.5%	25%	50%
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**Disposition Summary**

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Large, Cecum	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Large, Colon	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Large, Rectum	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Small, Duodenum	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Small, Ileum	(10)	(10)	(0)	(0)	(0)	(0)
Intestine Small, Jejunum	(10)	(10)	(0)	(0)	(0)	(0)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic	6 (60%)	5 (50%)	7 (70%)	9 (90%)	5 (50%)	5 (50%)
Oral Mucosa	(10)	(10)	(0)	(0)	(0)	(0)
Pancreas	(10)	(10)	(0)	(0)	(0)	(0)
Salivary Glands	(10)	(10)	(0)	(0)	(0)	(0)
Stomach, Forestomach	(10)	(10)	(0)	(0)	(0)	(0)
Stomach, Glandular	(10)	(10)	(0)	(0)	(0)	(0)
Tongue	(10)	(10)	(0)	(0)	(0)	(0)

CARDIOVASCULAR SYSTEM

Blood Vessel	(9)	(10)	(0)	(0)	(0)	(0)
Heart	(10)	(10)	(0)	(0)	(0)	(0)
Cardiomyopathy		1 (10%)				

ENDOCRINE SYSTEM

Adrenal Cortex	(10)	(10)	(0)	(0)	(0)	(0)
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a - Number of animals examined microscopically at site and number of animals with lesion

Fischer 344-Taconic RATS FEMALE	untreated	vehicle	6.25%	12.5%	25%	50%
Adrenal Medulla	(10)	(10)	(0)	(0)	(0)	(0)
Parathyroid Gland	(9)	(10)	(0)	(0)	(0)	(0)
Pituitary Gland	(7)	(4)	(0)	(0)	(0)	(0)
Pars Distalis, Cyst, Multiple, Focal	1 (14%)					
Thyroid Gland	(10)	(10)	(0)	(0)	(0)	(0)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Clitoral Gland	(9)	(10)	(0)	(0)	(0)	(0)
Inflammation, Chronic		1 (10%)				
Ovary	(10)	(10)	(0)	(0)	(0)	(0)
Uterus	(10)	(10)	(0)	(0)	(0)	(0)
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(10)	(0)	(0)	(0)	(0)
Lymph Node	(0)	(1)	(0)	(0)	(0)	(0)
Iliac, Hyperplasia, Diffuse		1 (100%)				
Lymph Node, Mandibular	(10)	(10)	(0)	(0)	(0)	(0)
Lymph Node, Mesenteric	(9)	(10)	(0)	(0)	(0)	(0)
Infiltration Cellular, Histiocyte	4 (44%)	6 (60%)				
Spleen	(10)	(10)	(0)	(0)	(0)	(0)
Thymus	(10)	(10)	(0)	(0)	(0)	(0)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(8)	(10)	(0)	(0)	(0)	(0)
Skin	(10)	(10)	(10)	(10)	(10)	(10)
Skin, Site Of Application	(10)	(10)	(10)	(10)	(10)	(10)

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

Fischer 344-Taconic RATS FEMALE	untreated	vehicle	6.25%	12.5%	25%	50%
Hyperkeratosis				4 (40%)	5 (50%)	7 (70%)
Hyperplasia			1 (10%)	5 (50%)	7 (70%)	7 (70%)
Dermis, Inflammation, Suppurative						
Hair Follicle, Necrosis						
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(10)	(0)	(0)	(0)	(0)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(10)	(0)	(0)	(0)	(0)
<b>RESPIRATORY SYSTEM</b>						
Larynx	(10)	(10)	(0)	(0)	(0)	(0)
Lung	(10)	(10)	(0)	(0)	(0)	(0)
Infiltration Cellular, Histiocyte						
Inflammation, Chronic	2 (20%)	3 (30%)				
Mineralization		1 (10%)				
Interstitial, Inflammation, Focal	3 (30%)	1 (10%)				
Nose	(10)	(10)	(0)	(0)	(0)	(0)
Trachea	(10)	(10)	(0)	(0)	(0)	(0)
<b>SPECIAL SENSES SYSTEM</b>						
Ear	(1)	(0)	(0)	(0)	(0)	(0)
Eye	(10)	(10)	(0)	(0)	(0)	(0)
Harderian Gland	(10)	(10)	(0)	(0)	(0)	(0)
Inflammation, Chronic	3 (30%)	1 (10%)				
<b>URINARY SYSTEM</b>						

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

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Fischer 344-Taconic RATS FEMALE	untreated	vehicle	6.25%	12.5%	25%	50%
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic		2 (20%)			1 (10%)	
Mineralization		1 (10%)			2 (20%)	
Nephropathy	2 (20%)	1 (10%)				
Pelvis, Inflammation, Chronic						1 (10%)
Urinary Bladder	(9)	(9)	(0)	(0)	(0)	(0)

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Fischer 344-Taconic RATS FEMALE

100%

### Disposition Summary

Animals Initially In Study	10
Early Deaths	
Survivors	
Terminal Sacrifice	10
Animals Examined Microscopically	10

### 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)
Inflammation, Chronic	5 (50%)
Oral Mucosa	(10)
Pancreas	(10)
Salivary Glands	(10)
Stomach, Forestomach	(10)
Stomach, Glandular	(10)
Tongue	(10)

### CARDIOVASCULAR SYSTEM

Blood Vessel	(10)
Heart	(10)
Cardiomyopathy	

### ENDOCRINE SYSTEM

Adrenal Cortex	(10)
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**Fischer 344-Taconic RATS FEMALE** **100%**

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Adrenal Medulla	(10)
Parathyroid Gland	(10)
Pituitary Gland	(10)
Pars Distalis, Cyst, Multiple, Focal	
Thyroid Gland	(10)

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**GENERAL BODY SYSTEM**

None

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**GENITAL SYSTEM**

Clitoral Gland	(10)
Inflammation, Chronic	
Ovary	(10)
Uterus	(10)

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**HEMATOPOIETIC SYSTEM**

Bone Marrow	(10)
Lymph Node	(0)
Iliac, Hyperplasia, Diffuse	
Lymph Node, Mandibular	(10)
Lymph Node, Mesenteric	(10)
Infiltration Cellular, Histiocyte	5 (50%)
Spleen	(10)
Thymus	(10)

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**INTEGUMENTARY SYSTEM**

Mammary Gland	(10)
Skin	(10)
Skin, Site Of Application	(10)

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

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**Fischer 344-Taconic RATS FEMALE**

**100%**

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Hyperkeratosis	7 (70%)
Hyperplasia	8 (80%)
Dermis, Inflammation, Suppurative	1 (10%)
Hair Follicle, Necrosis	1 (10%)

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**MUSCULOSKELETAL SYSTEM**

Bone	(10)
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**NERVOUS SYSTEM**

Brain	(10)
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**RESPIRATORY SYSTEM**

Larynx	(10)
Lung	(10)
Infiltration Cellular, Histiocyte	1 (10%)
Inflammation, Chronic	1 (10%)
Mineralization	
Interstitial, Inflammation, Focal	1 (10%)
Nose	(10)
Trachea	(10)

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**SPECIAL SENSES SYSTEM**

Ear	(1)
Eye	(10)
Harderian Gland	(10)
Inflammation, Chronic	3 (30%)

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**URINARY SYSTEM**

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



TDMS No. 20307 - 03

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: RATS/F344/N Tac

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**  
Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- (Iso-E Super)

CAS Number: 54464-57-2

Date Report Requested: 07/27/2011

Time Report Requested: 12:19:39

First Dose M/F: 12/12/06 / 12/13/06

Lab: MBA

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Fischer 344-Taconic RATS FEMALE 100%

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Kidney	(10)
Inflammation, Chronic	
Mineralization	1 (10%)
Nephropathy	
Pelvis, Inflammation, Chronic	
Urinary Bladder	(10)

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\*\*\* END OF REPORT \*\*\*

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