

**Experiment Number:** 20316 - 02  
**Test Type:** 90-DAY  
**Route:** SKIN APPLICATION  
**Species/Strain:** MICE/B6C3F1

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

Cedarwood oil  
**CAS Number:** 8000-27-9

**Date Report Requested:** 02/03/2014  
**Time Report Requested:** 08:27:53  
**First Dose M/F:** 06/14/05 / 06/13/05  
**Lab:** BAT

F1\_Rev.1\_M3

**NTP Study Number:** C20316  
**Lock Date:** 03/06/2006  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.0\_001  
**PWG Approval Date:** NONE

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Cedarwood oil

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Date Report Requested: 02/03/2014

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First Dose M/F: 06/14/05 / 06/13/05

Lab: BAT

B6C3F1 MICE MALE	UNTREATED	0 %	6.25 %	12.5 %	25 %	50 %
<b>Disposition Summary</b>						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice				1		1
Survivors						
Terminal Sacrifice	10	10	10	9	10	9
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(10)	(0)	(1)	(0)	(10)
Gallbladder	(10)	(10)	(0)	(1)	(0)	(10)
Intestine Large, Cecum	(10)	(10)	(0)	(1)	(0)	(10)
Intestine Large, Colon	(10)	(10)	(0)	(1)	(0)	(10)
Intestine Large, Rectum	(10)	(10)	(0)	(1)	(0)	(10)
Intestine Small, Duodenum	(10)	(10)	(0)	(1)	(0)	(10)
Intestine Small, Ileum	(10)	(10)	(0)	(1)	(0)	(10)
Intestine Small, Jejunum	(10)	(10)	(0)	(1)	(0)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Hematopoietic Cell Proliferation						1 (10%)
Infarct						
Inflammation, Chronic Active	8 (80%)	7 (70%)	6 (60%)	8 (80%)	7 (70%)	2 (20%)
Necrosis, Focal		1 (10%)				1 (10%)
Hepatocyte, Depletion Glycogen				6 (60%)	9 (90%)	10 (100%)
Mesentery	(0)	(0)	(0)	(0)	(0)	(1)
Fat, Fibrosis						1 (100%)
Fat, Necrosis						1 (100%)
Pancreas	(10)	(10)	(0)	(1)	(0)	(10)
Salivary Glands	(10)	(10)	(0)	(1)	(0)	(10)
Inflammation, Chronic Active	1 (10%)					
Stomach, Forestomach	(10)	(10)	(0)	(1)	(0)	(10)
Stomach, Glandular	(10)	(10)	(0)	(1)	(0)	(10)

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

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Lab: BAT

B6C3F1 MICE MALE	UNTREATED	0 %	6.25 %	12.5 %	25 %	50 %
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(10)	(10)	(0)	(1)	(0)	(10)
Heart	(10)	(10)	(0)	(1)	(0)	(10)
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(10)	(0)	(1)	(0)	(10)
Accessory Adrenal Cortical Nodule	1 (10%)	2 (20%)				2 (20%)
Adrenal Medulla	(10)	(10)	(0)	(1)	(0)	(10)
Islets, Pancreatic	(10)	(10)	(0)	(1)	(0)	(10)
Parathyroid Gland	(10)	(9)	(0)	(1)	(0)	(10)
Cyst		1 (11%)				
Pituitary Gland	(10)	(10)	(0)	(1)	(0)	(10)
Thyroid Gland	(10)	(10)	(0)	(1)	(0)	(10)
Ectopic Thymus	1 (10%)					
Follicle, Degeneration						1 (10%)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Coagulating Gland	(10)	(10)	(0)	(1)	(0)	(10)
Epididymis	(10)	(10)	(0)	(1)	(0)	(10)
Preputial Gland	(10)	(10)	(0)	(1)	(0)	(10)
Prostate	(10)	(10)	(0)	(1)	(0)	(10)
Seminal Vesicle	(10)	(10)	(0)	(1)	(0)	(10)
Testes	(10)	(10)	(0)	(1)	(0)	(10)
<b>HEMATOPOIETIC SYSTEM</b>						

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

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Lab: BAT

B6C3F1 MICE MALE	UNTREATED	0 %	6.25 %	12.5 %	25 %	50 %
Bone Marrow	(10)	(10)	(10)	(10)	(10)	(10)
Myeloid Cell, Hyperplasia			5 (50%)	10 (100%)	10 (100%)	10 (100%)
Lymph Node	(0)	(0)	(0)	(0)	(0)	(0)
Axillary, Hyperplasia, Lymphoid						
Lymph Node, Mandibular	(10)	(10)	(10)	(10)	(9)	(10)
Hyperplasia, Lymphoid			1 (10%)	6 (60%)	5 (56%)	9 (90%)
Lymph Node, Mesenteric	(10)	(10)	(0)	(1)	(0)	(10)
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Hematopoietic Cell Proliferation			6 (60%)	10 (100%)	10 (100%)	10 (100%)
Thymus	(10)	(10)	(10)	(10)	(10)	(10)
Atrophy					5 (50%)	10 (100%)
Ectopic Parathyroid Gland		1 (10%)				1 (10%)

INTEGUMENTARY SYSTEM

Skin	(10)	(9)	(10)	(10)	(10)	(10)
Hair Follicle, Site Of Application, Dilatation						1 (10%)
Hair Follicle, Site Of Application, Hyperplasia			10 (100%)	10 (100%)	10 (100%)	10 (100%)
Sebaceous Gland, Site Of Application, Hyperplasia			10 (100%)	10 (100%)	10 (100%)	10 (100%)
Site Of Application, Inflammation, Chronic Active			10 (100%)	10 (100%)	10 (100%)	10 (100%)
Site Of Application - Dermis, Fibrosis			3 (30%)	10 (100%)	10 (100%)	10 (100%)
Site Of Application - Epidermis, Hyperkeratosis			7 (70%)	10 (100%)	10 (100%)	10 (100%)
Site Of Application - Epidermis, Hyperplasia			10 (100%)	10 (100%)	10 (100%)	10 (100%)
Site Of Application - Epidermis, Ulcer			2 (20%)	8 (80%)	10 (100%)	9 (90%)

MUSCULOSKELETAL SYSTEM

Bone	(10)	(10)	(0)	(1)	(0)	(10)
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NERVOUS SYSTEM

Brain	(10)	(10)	(0)	(1)	(0)	(10)
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B6C3F1 MICE MALE	UNTREATED	0 %	6.25 %	12.5 %	25 %	50 %
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RESPIRATORY SYSTEM						
Lung	(10)	(10)	(0)	(1)	(0)	(10)
Metaplasia, Osseous	1 (10%)					
Thrombosis		1 (10%)				
Nose	(10)	(10)	(0)	(1)	(0)	(10)
Trachea	(10)	(10)	(0)	(1)	(0)	(10)

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SPECIAL SENSES SYSTEM						
Eye	(10)	(10)	(0)	(1)	(0)	(10)
Harderian Gland	(10)	(10)	(0)	(1)	(0)	(10)

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URINARY SYSTEM						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic Active						
Nephropathy		2 (20%)		1 (10%)	2 (20%)	3 (30%)
Urinary Bladder	(10)	(10)	(0)	(1)	(0)	(10)

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B6C3F1 MICE MALE 100 %

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## Disposition Summary

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

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## ALIMENTARY SYSTEM

Esophagus	(10)
Gallbladder	(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)
Hematopoietic Cell Proliferation	
Infarct	1 (10%)
Inflammation, Chronic Active	1 (10%)
Necrosis, Focal	2 (20%)
Hepatocyte, Depletion Glycogen	10 (100%)
Mesentery	(0)
Fat, Fibrosis	
Fat, Necrosis	
Pancreas	(10)
Salivary Glands	(10)
Inflammation, Chronic Active	
Stomach, Forestomach	(10)
Stomach, Glandular	(10)

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**B6C3F1 MICE MALE** **100 %**

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**CARDIOVASCULAR SYSTEM**

Blood Vessel (10)  
Heart (10)

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**ENDOCRINE SYSTEM**

Adrenal Cortex (10)  
    Accessory Adrenal Cortical Nodule  
Adrenal Medulla (10)  
Islets, Pancreatic (10)  
Parathyroid Gland (10)  
    Cyst 1 (10%)  
Pituitary Gland (10)  
Thyroid Gland (10)  
    Ectopic Thymus  
    Follicle, Degeneration 2 (20%)

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**GENERAL BODY SYSTEM**

None

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**GENITAL SYSTEM**

Coagulating Gland (10)  
Epididymis (10)  
Preputial Gland (10)  
Prostate (10)  
Seminal Vesicle (10)  
Testes (10)

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**HEMATOPOIETIC SYSTEM**

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B6C3F1 MICE MALE	100 %
Bone Marrow	(10)
Myeloid Cell, Hyperplasia	10 (100%)
Lymph Node	(9)
Axillary, Hyperplasia, Lymphoid	9 (100%)
Lymph Node, Mandibular	(10)
Hyperplasia, Lymphoid	8 (80%)
Lymph Node, Mesenteric	(10)
Spleen	(10)
Hematopoietic Cell Proliferation	10 (100%)
Thymus	(10)
Atrophy	10 (100%)
Ectopic Parathyroid Gland	

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**INTEGUMENTARY SYSTEM**

Skin	(10)
Hair Follicle, Site Of Application, Dilatation	1 (10%)
Hair Follicle, Site Of Application, Hyperplasia	10 (100%)
Sebaceous Gland, Site Of Application, Hyperplasia	10 (100%)
Site Of Application, Inflammation, Chronic Active	10 (100%)
Site Of Application - Dermis, Fibrosis	10 (100%)
Site Of Application - Epidermis, Hyperkeratosis	10 (100%)
Site Of Application - Epidermis, Hyperplasia	10 (100%)
Site Of Application - Epidermis, Ulcer	10 (100%)

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**MUSCULOSKELETAL SYSTEM**

Bone	(10)
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**NERVOUS SYSTEM**

Brain	(10)
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B6C3F1 MICE MALE

100 %

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RESPIRATORY SYSTEM

Lung	(10)
Metaplasia, Osseous	
Thrombosis	
Nose	(10)
Trachea	(10)

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SPECIAL SENSES SYSTEM

Eye	(10)
Harderian Gland	(10)

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URINARY SYSTEM

Kidney	(10)
Inflammation, Chronic Active	1 (10%)
Nephropathy	5 (50%)
Urinary Bladder	(10)

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

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Lab: BAT

B6C3F1 MICE FEMALE	UNTREATED	0 %	6.25 %	12.5 %	25 %	50 %
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**Disposition Summary**

Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice						1
Survivors						
Terminal Sacrifice	10	10	10	10	10	9
Animals Examined Microscopically	10	10	10	10	10	10

## ALIMENTARY SYSTEM

Esophagus	(10)	(10)	(0)	(0)	(0)	(10)
Gallbladder	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(10)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(10)	(0)	(0)	(0)	(10)
Diverticulum						1 (10%)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Infarct						
Inflammation, Chronic Active	10 (100%)	10 (100%)	8 (80%)	9 (90%)	9 (90%)	10 (100%)
Tension Lipidosis						1 (10%)
Hepatocyte, Depletion Glycogen				5 (50%)	9 (90%)	10 (100%)
Hepatocyte, Necrosis						
Pancreas	(10)	(10)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(10)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(10)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(10)	(0)	(0)	(0)	(10)
Mineralization		1 (10%)				

## CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(10)	(0)	(0)	(0)	(10)
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Lab: BAT

B6C3F1 MICE FEMALE	UNTREATED	0 %	6.25 %	12.5 %	25 %	50 %
Heart	(10)	(10)	(0)	(0)	(0)	(10)

**ENDOCRINE SYSTEM**

Adrenal Cortex	(10)	(10)	(0)	(0)	(0)	(10)
Accessory Adrenal Cortical Nodule	1 (10%)					
Adrenal Medulla	(10)	(10)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(10)	(0)	(0)	(0)	(10)
Parathyroid Gland	(9)	(9)	(0)	(0)	(0)	(8)
Pituitary Gland	(10)	(10)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(10)	(0)	(0)	(0)	(10)
Ectopic Thymus		1 (10%)				

**GENERAL BODY SYSTEM**

None

**GENITAL SYSTEM**

Clitoral Gland	(10)	(10)	(0)	(0)	(0)	(10)
Ovary	(10)	(10)	(0)	(0)	(0)	(10)
Uterus	(10)	(10)	(0)	(0)	(0)	(10)
Decidual Reaction		1 (10%)				
Endometrium, Hyperplasia, Cystic	1 (10%)	2 (20%)				

**HEMATOPOIETIC SYSTEM**

Bone Marrow	(10)	(10)	(10)	(10)	(10)	(10)
Myeloid Cell, Hyperplasia			2 (20%)	9 (90%)	10 (100%)	10 (100%)
Lymph Node	(0)	(0)	(0)	(0)	(1)	(2)
Hyperplasia, Lymphoid					1 (100%)	1 (50%)
Axillary, Hyperplasia, Lymphoid						1 (50%)
Lymph Node, Mandibular	(10)	(10)	(10)	(10)	(10)	(10)

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B6C3F1 MICE FEMALE	UNTREATED	0 %	6.25 %	12.5 %	25 %	50 %
Hyperplasia, Lymphoid		1 (10%)	6 (60%)	6 (60%)	5 (50%)	6 (60%)
Lymph Node, Mesenteric	(10)	(10)	(0)	(0)	(0)	(10)
Spleen	(10)	(10)	(10)	(10)	(10)	(10)
Hematopoietic Cell Proliferation	4 (40%)	2 (20%)	9 (90%)	10 (100%)	10 (100%)	10 (100%)
Inflammation, Chronic Active	1 (10%)					
Thymus	(10)	(10)	(10)	(10)	(10)	(10)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(10)	(10)	(0)	(0)	(0)	(10)
Skin	(10)	(10)	(10)	(10)	(10)	(10)
Hair Follicle, Site Of Application, Dilatation						
Hair Follicle, Site Of Application, Hyperplasia			3 (30%)	10 (100%)	10 (100%)	10 (100%)
Sebaceous Gland, Site Of Application, Hyperplasia	1 (10%)		4 (40%)	10 (100%)	10 (100%)	10 (100%)
Site Of Application, Inflammation, Chronic Active			10 (100%)	10 (100%)	10 (100%)	10 (100%)
Site Of Application - Dermis, Fibrosis			2 (20%)	10 (100%)	10 (100%)	10 (100%)
Site Of Application - Epidermis, Hyperkeratosis			2 (20%)	10 (100%)	10 (100%)	10 (100%)
Site Of Application - Epidermis, Hyperplasia			10 (100%)	10 (100%)	10 (100%)	10 (100%)
Site Of Application - Epidermis, Ulcer			2 (20%)	6 (60%)	9 (90%)	10 (100%)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(10)	(0)	(0)	(0)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(10)	(0)	(0)	(0)	(10)
<b>RESPIRATORY SYSTEM</b>						
Lung	(10)	(10)	(0)	(0)	(0)	(10)
Nose	(10)	(10)	(0)	(0)	(0)	(10)

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<b>B6C3F1 MICE FEMALE</b>	<b>UNTREATED</b>	<b>0 %</b>	<b>6.25 %</b>	<b>12.5 %</b>	<b>25 %</b>	<b>50 %</b>
Trachea	(10)	(10)	(0)	(0)	(0)	(10)
<hr/>						
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(10)	(10)	(0)	(0)	(0)	(10)
Harderian Gland	(10)	(10)	(0)	(0)	(0)	(10)
<hr/>						
<b>URINARY SYSTEM</b>						
Kidney	(10)	(10)	(0)	(0)	(0)	(10)
Inflammation, Chronic Active						
Nephropathy						1 (10%)
Urinary Bladder	(10)	(10)	(0)	(0)	(0)	(10)

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Time Report Requested: 08:27:53

First Dose M/F: 06/14/05 / 06/13/05

Lab: BAT

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B6C3F1 MICE FEMALE 100 %

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## Disposition Summary

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

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## ALIMENTARY SYSTEM

Esophagus	(10)
Gallbladder	(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)
Diverticulum	
Liver	(10)
Infarct	1 (10%)
Inflammation, Chronic Active	8 (80%)
Tension Lipidosis	
Hepatocyte, Depletion Glycogen	10 (100%)
Hepatocyte, Necrosis	1 (10%)
Pancreas	(10)
Salivary Glands	(10)
Stomach, Forestomach	(10)
Stomach, Glandular	(10)
Mineralization	

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## CARDIOVASCULAR SYSTEM

Blood Vessel	(10)
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a - Number of animals examined microscopically at site and number of animals with lesion

Experiment Number: 20316 - 02

Test Type: 90-DAY

Route: SKIN APPLICATION

Species/Strain: MICE/B6C3F1

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

Cedarwood oil

CAS Number: 8000-27-9

Date Report Requested: 02/03/2014

Time Report Requested: 08:27:53

First Dose M/F: 06/14/05 / 06/13/05

Lab: BAT

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**B6C3F1 MICE FEMALE** 100 %

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Heart (10)

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**ENDOCRINE SYSTEM**

Adrenal Cortex (10)

    Accessory Adrenal Cortical Nodule

Adrenal Medulla (10)

Islets, Pancreatic (10)

Parathyroid Gland (9)

Pituitary Gland (10)

Thyroid Gland (10)

    Ectopic Thymus

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**GENERAL BODY SYSTEM**

None

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**GENITAL SYSTEM**

Clitoral Gland (10)

Ovary (10)

Uterus (10)

    Decidual Reaction

    Endometrium, Hyperplasia, Cystic

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**HEMATOPOIETIC SYSTEM**

Bone Marrow (10)

    Myeloid Cell, Hyperplasia 10 (100%)

Lymph Node (10)

    Hyperplasia, Lymphoid

    Axillary, Hyperplasia, Lymphoid 10 (100%)

Lymph Node, Mandibular (10)

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**B6C3F1 MICE FEMALE**

**100 %**

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Hyperplasia, Lymphoid	10 (100%)
Lymph Node, Mesenteric	(10)
Spleen	(10)
Hematopoietic Cell Proliferation	10 (100%)
Inflammation, Chronic Active	
Thymus	(10)

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**INTEGUMENTARY SYSTEM**

Mammary Gland	(10)
Skin	(10)
Hair Follicle, Site Of Application, Dilatation	3 (30%)
Hair Follicle, Site Of Application, Hyperplasia	10 (100%)
Sebaceous Gland, Site Of Application, Hyperplasia	10 (100%)
Site Of Application, Inflammation, Chronic Active	10 (100%)
Site Of Application - Dermis, Fibrosis	10 (100%)
Site Of Application - Epidermis, Hyperkeratosis	10 (100%)
Site Of Application - Epidermis, Hyperplasia	10 (100%)
Site Of Application - Epidermis, Ulcer	10 (100%)

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**MUSCULOSKELETAL SYSTEM**

Bone	(10)
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**NERVOUS SYSTEM**

Brain	(10)
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**RESPIRATORY SYSTEM**

Lung	(10)
Nose	(10)

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**B6C3F1 MICE FEMALE**

**100 %**

Trachea

(10)

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**SPECIAL SENSES SYSTEM**

Eye

(10)

Harderian Gland

(10)

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**URINARY SYSTEM**

Kidney

(10)

Inflammation, Chronic Active

2 (20%)

Nephropathy

Urinary Bladder

(10)

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

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