

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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Lab: BAT

B6C3F1 MICE MALE	UNTREATED	0 %	6.25 %	12.5 %	25 %	50 %
Disposition Summary						
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
ALIMENTARY SYSTEM						
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 %
CARDIOVASCULAR SYSTEM						
Blood Vessel	(10)	(10)	(0)	(1)	(0)	(10)
Heart	(10)	(10)	(0)	(1)	(0)	(10)
ENDOCRINE SYSTEM						
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%)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
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)
HEMATOPOIETIC SYSTEM						

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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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Lab: BAT

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)

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

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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Lab: BAT

B6C3F1 MICE MALE 100 %

Disposition Summary

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

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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Lab: BAT

B6C3F1 MICE MALE **100 %**

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)
Heart	(10)

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%)

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

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

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	

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%)

MUSCULOSKELETAL SYSTEM

Bone	(10)
------	------

NERVOUS SYSTEM

Brain	(10)
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Lab: BAT

B6C3F1 MICE MALE

100 %

RESPIRATORY SYSTEM

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

SPECIAL SENSES SYSTEM

Eye	(10)
Harderian Gland	(10)

URINARY SYSTEM

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

*** END OF MALE ***

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

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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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Lab: BAT

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)
INTEGUMENTARY SYSTEM						
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%)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(10)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(10)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Lung	(10)	(10)	(0)	(0)	(0)	(10)
Nose	(10)	(10)	(0)	(0)	(0)	(10)

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Lab: BAT

B6C3F1 MICE FEMALE	UNTREATED	0 %	6.25 %	12.5 %	25 %	50 %
Trachea	(10)	(10)	(0)	(0)	(0)	(10)
<hr/>						
SPECIAL SENSES SYSTEM						
Eye	(10)	(10)	(0)	(0)	(0)	(10)
Harderian Gland	(10)	(10)	(0)	(0)	(0)	(10)
<hr/>						
URINARY SYSTEM						
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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Lab: BAT

B6C3F1 MICE FEMALE 100 %

Disposition Summary

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

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	

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

B6C3F1 MICE FEMALE **100 %**

Heart (10)

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

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland (10)

Ovary (10)

Uterus (10)

 Decidual Reaction

 Endometrium, Hyperplasia, Cystic

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 %**

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

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%)

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)

SPECIAL SENSES SYSTEM

Eye (10)

Harderian Gland (10)

URINARY SYSTEM

Kidney (10)

Inflammation, Chronic Active 2 (20%)

Nephropathy

Urinary Bladder (10)

*** END OF REPORT ***

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