

**Experiment Number:** 88105-01  
**Test Type:** 90-DAY  
**Route:** GAVAGE  
**Species/Strain:** Rat/F 344/N

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

**Test Compound:** Isoeugenol  
**CAS Number:** 97-54-1

**Date Report Requested:** 10/16/2014  
**Time Report Requested:** 02:36:42  
**First Dose M/F:** NA / NA  
**Lab:** BAT

<b>C Number:</b>	C88105
<b>Lock Date:</b>	03/01/2002
<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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Species/Strain: Rat/F 344/N

Lab: BAT

F 344/N Rat MALE	0 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	600 MG/KG
<b>Disposition Summary</b>						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Dosing Accident						1
Survivors						
Terminal Sacrifice	10	10	10	10	10	9
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic	1 (10%)					3 (30%)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Clear Cell Focus	1 (10%)					
Hepatodiaphragmatic Nodule	2 (20%)	1 (10%)				1 (10%)
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(4)	(0)	(0)	(0)	(0)	(5)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	10 (100%)					10 (100%)
<b>ENDOCRINE SYSTEM</b>						

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

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Lab: BAT

F 344/N Rat MALE	0 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	600 MG/KG
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(7)	(0)	(0)	(0)	(0)	(8)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Cyst						1 (10%)
Pars Distalis, Hyperplasia	1 (10%)					
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(0)	(0)	(10)
Germinal Epith, Atrophy	2 (20%)					1 (10%)
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Hypercellularity						1 (10%)
Lymph Node	(1)	(3)	(4)	(3)	(2)	(0)
Deep Cervical, Hyperplasia, Lymphoid	1 (100%)	3 (100%)	3 (75%)	3 (100%)	2 (100%)	
Mediastinal, Hyperplasia, Lymphoid			1 (25%)			
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(1)	(10)
Hyperplasia, Lymphoid					1 (100%)	
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
<b>INTEGUMENTARY SYSTEM</b>						

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Lab: BAT

F 344/N Rat MALE	0 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	600 MG/KG
Mammary Gland	(9)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(1)	(0)	(0)	(0)	(10)
Hydrocephalus		1 (100%)				
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(0)	(0)	(0)	(10)
Congestion						1 (10%)
Inflammation, Chronic	2 (20%)					2 (20%)
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic Active	1 (10%)			1 (10%)	2 (20%)	2 (20%)
Nerve, Atrophy		1 (10%)	1 (10%)	3 (30%)	2 (20%)	3 (30%)
Olfactory Epi, Atrophy		3 (30%)	3 (30%)	4 (40%)	4 (40%)	5 (50%)
Olfactory Epi, Degeneration						1 (10%)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM						
Eye	(10)	(0)	(0)	(0)	(0)	(10)
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Nephropathy	4 (40%)					7 (70%)
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

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

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

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Species/Strain: Rat/F 344/N

Lab: BAT

F 344/N Rat FEMALE	0 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	600 MG/KG
<b>Disposition Summary</b>						
<b>Animals Initially In Study</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>Early Deaths</b>						
<b>Dosing Accident</b>		<b>1</b>				
<b>Moribund Sacrifice</b>			<b>1</b>			
<b>Survivors</b>						
<b>Terminal Sacrifice</b>	<b>10</b>	<b>9</b>	<b>9</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>Animals Examined Microscopically</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>10</b>
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(1)	(1)	(0)	(0)	(10)
Inflammation, Chronic						1 (10%)
Intestine Large, Cecum	(10)	(1)	(1)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(1)	(1)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(1)	(1)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(1)	(1)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(1)	(1)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(1)	(1)	(0)	(0)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Hepatodiaphragmatic Nodule	2 (20%)	1 (10%)	1 (10%)		1 (10%)	
Periportal, Cytoplasmic Alteration					10 (100%)	10 (100%)
Mesentery	(1)	(0)	(0)	(0)	(1)	(0)
Fat, Necrosis	1 (100%)				1 (100%)	
Pancreas	(10)	(1)	(1)	(0)	(0)	(10)
Acinus, Atrophy			1 (100%)			
Salivary Glands	(5)	(1)	(1)	(0)	(0)	(6)
Stomach, Forestomach	(10)	(1)	(1)	(0)	(0)	(10)
Stomach, Glandular	(10)	(1)	(1)	(0)	(0)	(10)
Tooth	(1)	(0)	(0)	(0)	(0)	(0)
Inflammation, Suppurative	1 (100%)					

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Lab: BAT

F 344/N Rat FEMALE	0 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	600 MG/KG
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(10)	(1)	(1)	(0)	(0)	(10)
Heart	(10)	(1)	(1)	(0)	(0)	(10)
Cardiomyopathy	10 (100%)					10 (100%)
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(1)	(1)	(0)	(0)	(10)
Adrenal Medulla	(10)	(1)	(1)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(1)	(1)	(0)	(0)	(10)
Parathyroid Gland	(6)	(1)	(1)	(0)	(0)	(6)
Cyst	1 (17%)					
Pituitary Gland	(10)	(1)	(1)	(0)	(0)	(10)
Thyroid Gland	(10)	(1)	(1)	(0)	(0)	(10)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Clitoral Gland	(10)	(1)	(1)	(0)	(0)	(10)
Cyst						1 (10%)
Ovary	(10)	(2)	(1)	(0)	(0)	(10)
Cyst		1 (50%)				
Uterus	(10)	(1)	(1)	(0)	(0)	(10)
Endometrium, Hyperplasia, Cystic						1 (10%)
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(1)	(1)	(0)	(0)	(10)
Lymph Node	(3)	(4)	(4)	(4)	(4)	(3)
Deep Cervical, Hyperplasia, Lymphoid	3 (100%)	3 (75%)	2 (50%)	4 (100%)	1 (25%)	3 (100%)
Mediastinal, Hyperplasia, Lymphoid			2 (50%)		2 (50%)	
Pancreatic, Hyperplasia, Lymphoid		1 (25%)			1 (25%)	
Pancreatic, Infiltration Cellular, Histiocyte					1 (25%)	

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Lab: BAT

F 344/N Rat FEMALE	0 MG/KG	37.5 MG/KG	75 MG/KG	150 MG/KG	300 MG/KG	600 MG/KG
Lymph Node, Mesenteric	(10)	(1)	(1)	(0)	(0)	(10)
Spleen	(10)	(1)	(1)	(0)	(0)	(10)
Atrophy		1 (100%)				
Thymus	(10)	(1)	(1)	(0)	(0)	(10)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(10)	(1)	(1)	(0)	(0)	(10)
Skin	(10)	(1)	(1)	(0)	(0)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(1)	(1)	(0)	(0)	(10)
Skeletal Muscle	(0)	(0)	(1)	(0)	(0)	(0)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(1)	(1)	(0)	(0)	(10)
Spinal Cord	(0)	(0)	(1)	(0)	(0)	(0)
<b>RESPIRATORY SYSTEM</b>						
Lung	(10)	(1)	(1)	(0)	(0)	(10)
Inflammation, Chronic	3 (30%)					5 (50%)
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Chronic Active	1 (10%)					
Nerve, Atrophy				2 (20%)	2 (20%)	5 (50%)
Olfactory Epi, Atrophy		1 (10%)	2 (20%)	2 (20%)	5 (50%)	6 (60%)
Trachea	(10)	(1)	(1)	(0)	(0)	(10)
Inflammation, Chronic		1 (100%)				
<b>SPECIAL SENSES SYSTEM</b>						
Ear	(0)	(0)	(0)	(0)	(0)	(1)
Eye	(10)	(1)	(1)	(0)	(0)	(10)
Harderian Gland	(10)	(1)	(1)	(0)	(0)	(10)
Pigmentation, Porphyrin		1 (100%)	1 (100%)			

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<b>F 344/N Rat FEMALE</b>	<b>0 MG/KG</b>	<b>37.5 MG/KG</b>	<b>75 MG/KG</b>	<b>150 MG/KG</b>	<b>300 MG/KG</b>	<b>600 MG/KG</b>
URINARY SYSTEM						
Kidney	(10)	(1)	(1)	(0)	(0)	(10)
Nephropathy						1 (10%)
Urinary Bladder	(10)	(1)	(1)	(0)	(0)	(10)

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