

**Experiment Number:** 88124-02

**Test Type:** 90-DAY

**Route:** RESPIRATORY EXPOSURE WHOLE BODY

**Species/Strain:** Mouse/B6C3F1

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH  
AVERAGE SEVERITY GRADES[b]**

**Test Compound:** Indium phosphide

**CAS Number:** 22398-80-7

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 04:24:14

**First Dose M/F:** NA / NA

**Lab:** BNW

<b>C Number:</b>	C88124
<b>Lock Date:</b>	01/24/1996
<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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First Dose M/F: NA / NA

Lab: BNW

B6C3F1 Mouse MALE	CONTROL	1.0 MG/M3	3.0 MG/M3	10.0 MG/M3	30.0 MG/M3	100.0 MG/M3
<b>Disposition Summary</b>						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Moribund Sacrifice					1	9
Natural Death						1
Survivors						
Terminal Sacrifice	10	10	10	10	9	
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(0)	(0)	(0)	(10)	(10)
Gallbladder	(10)	(0)	(0)	(0)	(9)	(8)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(10)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(10)	(9)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(10)	(9)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(10)	(9)
Liver	(10)	(0)	(0)	(1)	(10)	(10)
Inflammation, Focal						1 [1.0]
Necrosis, Focal	1 [1.0]			1 [1.0]	1 [1.0]	
Pancreas	(10)	(0)	(0)	(0)	(10)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(10)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(10)	(10)
Epithelium, Hyperplasia						1 [3.0]
Ulcer						1 [1.0]
Stomach, Glandular	(10)	(0)	(0)	(0)	(10)	(10)
<b>CARDIOVASCULAR SYSTEM</b>						
Heart	(10)	(10)	(10)	(10)	(10)	(10)

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

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Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/B6C3F1

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]**

Test Compound: Indium phosphide

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First Dose M/F: NA / NA

Lab: BNW

B6C3F1 Mouse MALE	CONTROL	1.0 MG/M3	3.0 MG/M3	10.0 MG/M3	30.0 MG/M3	100.0 MG/M3
Cardiomyopathy					1 [1.0]	1 [1.0]
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(0)	(0)	(0)	(10)	(10)
Hypertrophy	1 [1.0]					
Adrenal Medulla	(10)	(0)	(0)	(0)	(10)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(10)	(9)
Parathyroid Gland	(7)	(0)	(0)	(0)	(4)	(4)
Pituitary Gland	(10)	(0)	(0)	(0)	(9)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(10)	(10)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Epididymis	(10)	(0)	(0)	(0)	(10)	(10)
Penis	(0)	(0)	(0)	(0)	(1)	(2)
Congestion						1 [1.0]
Inflammation					1 [2.0]	
Preputial Gland	(10)	(0)	(0)	(0)	(10)	(10)
Prostate	(10)	(0)	(0)	(0)	(10)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(10)	(10)
Testes	(9)	(0)	(0)	(0)	(10)	(10)
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(10)	(10)	(10)	(10)	(10)
Hyperplasia						2 [1.0]
Lymph Node, Bronchial	(8)	(10)	(10)	(10)	(10)	(7)
Hyperplasia		10 [2.6]	10 [2.1]	10 [2.2]	8 [2.1]	7 [1.9]
Pigmentation		10 [1.0]	10 [1.1]	10 [1.3]	10 [1.8]	7 [2.4]
Lymph Node, Mandibular	(7)	(0)	(0)	(0)	(7)	(7)

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

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**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH AVERAGE SEVERITY GRADES[b]**

Test Compound: Indium phosphide

CAS Number: 22398-80-7

Date Report Requested: 10/20/2014

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First Dose M/F: NA / NA

Lab: BNW

B6C3F1 Mouse MALE	CONTROL	1.0 MG/M3	3.0 MG/M3	10.0 MG/M3	30.0 MG/M3	100.0 MG/M3
Lymph Node, Mediastinal	(4)	(6)	(1)	(3)	(5)	(6)
Hyperplasia		1 [2.0]		1 [3.0]	2 [2.5]	3 [1.7]
Pigmentation		2 [1.0]		1 [1.0]	2 [2.5]	4 [2.3]
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(8)	(9)
Spleen	(10)	(10)	(10)	(9)	(9)	(10)
Hematopoietic Cell Proliferation		5 [1.2]	3 [1.0]	3 [1.3]	6 [1.7]	9 [1.9]
Thymus	(10)	(9)	(10)	(10)	(7)	(7)
Atrophy					1 [2.0]	7 [2.4]
<b>INTEGUMENTARY SYSTEM</b>						
Skin	(10)	(0)	(0)	(0)	(10)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(0)	(10)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(0)	(10)	(10)
<b>RESPIRATORY SYSTEM</b>						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Epiglottis, Metaplasia, Squamous	1 [1.0]			9 [1.0]	8 [1.0]	9 [1.7]
Foreign Body		2 [1.0]	2 [1.0]	6 [1.2]	6 [1.2]	4 [1.8]
Inflammation, Suppurative	1 [1.0]	3 [1.0]		1 [1.0]	5 [1.0]	4 [1.0]
Necrosis	2 [1.0]	4 [1.0]	1 [1.0]	2 [1.0]	3 [1.0]	4 [1.0]
Respirat Epith, Degeneration, Hyaline	1 [1.0]					
Squam Epithel, Hyperplasia				3 [1.3]	9 [2.1]	8 [2.4]
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Alveolar Epith, Hyperplasia		10 [1.3]	10 [1.4]	10 [3.1]	10 [3.9]	10 [3.6]
Alveolus, Proteinosis		10 [3.6]	10 [4.0]	10 [4.0]	10 [4.0]	10 [4.0]
Foreign Body		10 [2.4]	10 [3.0]	10 [3.4]	10 [4.0]	10 [4.0]
Inflammation, Chronic Active		10 [2.7]	10 [2.6]	10 [2.5]	9 [3.0]	10 [3.0]

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

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Species/Strain: Mouse/B6C3F1

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Test Compound: Indium phosphide

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Date Report Requested: 10/20/2014

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First Dose M/F: NA / NA

Lab: BNW

<b>B6C3F1 Mouse MALE</b>	<b>CONTROL</b>	<b>1.0 MG/M3</b>	<b>3.0 MG/M3</b>	<b>10.0 MG/M3</b>	<b>30.0 MG/M3</b>	<b>100.0 MG/M3</b>
Interstitialium, Fibrosis		10 [1.0]	10 [1.6]	10 [3.1]	10 [3.9]	10 [3.7]
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body				2 [1.0]	1 [1.0]	9 [2.2]
Inflammation						1 [1.0]
Inflammation, Suppurative			1 [1.0]			
Trachea	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body			2 [1.0]	3 [1.0]	3 [1.0]	3 [2.0]
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(0)	(0)	(0)	(1)	(0)	(0)
<b>URINARY SYSTEM</b>						
Kidney	(10)	(0)	(1)	(0)	(10)	(10)
Infarct						1 [2.0]
Nephropathy	2 [1.0]					1 [1.0]
Urinary Bladder	(10)	(0)	(0)	(0)	(10)	(10)
Inflammation, Chronic	1 [1.0]					

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

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B6C3F1 Mouse FEMALE	CONTROL	1.0 MG/M3	3.0 MG/M3	10.0 MG/M3	30.0 MG/M3	100.0 MG/M3
<b>Disposition Summary</b>						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Accidentally Killed					1	
Moribund Sacrifice					1	10
Natural Death					2	
Survivors						
Terminal Sacrifice	10	10	10	10	6	
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(0)	(0)	(0)	(10)	(10)
Gallbladder	(10)	(0)	(0)	(0)	(8)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(8)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(8)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(9)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(8)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(8)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(8)	(10)
Liver	(10)	(0)	(0)	(0)	(10)	(10)
Inflammation, Focal	3 [1.0]					
Pancreas	(10)	(0)	(0)	(0)	(9)	(10)
Salivary Glands	(10)	(10)	(10)	(10)	(10)	(10)
Degeneration					3 [1.0]	9 [1.4]
Stomach, Forestomach	(10)	(0)	(0)	(0)	(9)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(9)	(10)
<b>CARDIOVASCULAR SYSTEM</b>						
Heart	(10)	(10)	(10)	(10)	(10)	(10)
Cardiomyopathy						1 [1.0]

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

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First Dose M/F: NA / NA

Lab: BNW

B6C3F1 Mouse FEMALE	CONTROL	1.0 MG/M3	3.0 MG/M3	10.0 MG/M3	30.0 MG/M3	100.0 MG/M3
<b>ENDOCRINE SYSTEM</b>						
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)	(10)
Degeneration					8 [2.0]	10 [2.0]
Adrenal Medulla	(10)	(0)	(0)	(0)	(9)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(9)	(10)
Parathyroid Gland	(4)	(0)	(0)	(0)	(6)	(4)
Pituitary Gland	(10)	(0)	(0)	(0)	(10)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(10)	(9)
Inflammation	1 [1.0]					
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Clitoral Gland	(9)	(0)	(0)	(0)	(9)	(7)
Ovary	(9)	(10)	(10)	(10)	(10)	(10)
Atrophy					9 [2.0]	9 [2.0]
Cyst						1 [1.0]
Oviduct	(1)	(0)	(0)	(0)	(0)	(0)
Uterus	(10)	(10)	(10)	(10)	(10)	(10)
Atrophy					4 [1.5]	8 [2.4]
Vagina	(0)	(0)	(1)	(0)	(0)	(0)
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(10)	(10)	(10)	(10)	(10)
Lymph Node, Bronchial	(9)	(10)	(10)	(10)	(8)	(10)
Hyperplasia		10 [2.3]	10 [2.3]	10 [2.0]	6 [2.3]	8 [2.3]
Pigmentation		10 [1.0]	10 [1.1]	10 [1.2]	8 [2.0]	9 [2.3]
Lymph Node, Mandibular	(9)	(0)	(0)	(0)	(6)	(9)
Lymph Node, Mediastinal	(0)	(2)	(3)	(1)	(4)	(6)

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

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First Dose M/F: NA / NA

Lab: BNW

B6C3F1 Mouse FEMALE	CONTROL	1.0 MG/M3	3.0 MG/M3	10.0 MG/M3	30.0 MG/M3	100.0 MG/M3
Hyperplasia		1 [1.0]	1 [2.0]		3 [2.3]	1 [2.0]
Pigmentation					3 [2.0]	3 [1.7]
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(9)	(9)
Hyperplasia						1 [2.0]
Spleen	(10)	(10)	(10)	(10)	(9)	(10)
Hematopoietic Cell Proliferation	1 [2.0]	3 [1.7]	3 [1.3]		6 [1.3]	5 [1.2]
Thymus	(10)	(10)	(10)	(10)	(9)	(9)
Atrophy					3 [2.0]	9 [3.0]
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(10)	(10)	(10)	(10)	(10)	(10)
Fat, Atrophy					3 [3.3]	10 [3.6]
Skin	(10)	(1)	(0)	(0)	(10)	(10)
Subcut Tiss, Hemorrhage					1 [2.0]	
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(0)	(10)	(10)
Skeletal Muscle	(0)	(1)	(0)	(0)	(0)	(0)
<b>NERVOUS SYSTEM</b>						
Brain	(10)	(0)	(0)	(0)	(10)	(10)
Hemorrhage					1 [2.0]	
Necrosis, Focal					1 [1.0]	
<b>RESPIRATORY SYSTEM</b>						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Epiglottis, Metaplasia, Squamous				4 [1.3]	5 [1.2]	5 [1.6]
Foreign Body			1 [1.0]	5 [1.2]	4 [1.5]	6 [1.2]
Inflammation, Suppurative	1 [1.0]				1 [1.0]	6 [1.2]
Necrosis	1 [1.0]				3 [1.0]	5 [1.2]
Squam Epithel, Hyperplasia			1 [1.0]	4 [1.3]	7 [2.3]	10 [2.4]

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)



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First Dose M/F: NA / NA

Lab: BNW

<b>B6C3F1 Mouse FEMALE</b>	<b>CONTROL</b>	<b>1.0 MG/M3</b>	<b>3.0 MG/M3</b>	<b>10.0 MG/M3</b>	<b>30.0 MG/M3</b>	<b>100.0 MG/M3</b>
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Alveolar Epith, Hyperplasia		10 [1.3]	10 [1.6]	10 [1.8]	10 [3.1]	10 [4.0]
Alveolus, Proteinosis		10 [3.4]	10 [3.5]	10 [3.8]	10 [3.7]	10 [4.0]
Foreign Body		10 [2.2]	10 [3.0]	10 [3.0]	10 [3.9]	10 [4.0]
Inflammation, Chronic Active		10 [2.5]	10 [2.2]	10 [3.0]	9 [2.7]	10 [3.0]
Interstitial, Fibrosis		10 [1.0]	10 [1.4]	10 [2.7]	9 [4.0]	10 [4.0]
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body				2 [1.0]	3 [1.3]	10 [1.5]
Trachea	(10)	(10)	(9)	(10)	(10)	(10)
Foreign Body			1 [1.0]	6 [1.0]	1 [1.0]	5 [1.2]
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(0)	(0)	(0)	(0)	(1)	(0)
Zymbal's Gland	(0)	(0)	(1)	(0)	(0)	(0)
<b>URINARY SYSTEM</b>						
Kidney	(10)	(0)	(0)	(0)	(10)	(10)
Infarct					1 [2.0]	
Nephropathy	1 [1.0]					
Urinary Bladder	(10)	(0)	(0)	(0)	(9)	(10)

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

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

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)