

**Experiment Number:** 00602-05  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS  
ABRIDGED) (a)**

**Test Compound:** Urethane + ethanol (combination)

**CAS Number:** URETHCOMB

**Date Report Requested:** 10/18/2014

**Time Report Requested:** 00:14:33

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

**Lab:** NCTR

<b>C Number:</b>	C00602F
<b>Lock Date:</b>	Not Entered.
<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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B6C3F1/NCTR Mouse MALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMUR E
<b>Disposition Summary</b>						
Animals Initially In Study	48	48	48	48	48	48
Early Deaths						
Moribund	2	4	3	10	9	4
Natural Death	16	13	14	22	6	10
Survivors						
Moribund		4	1	1	1	1
Natural Death	3	1	4	7		3
Terminal Sacrifice	27	26	26	8	32	30
Animals Examined Microscopically	48	48	47	48	48	48
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(47)	(47)	(46)	(46)	(48)	(48)
Gallbladder	(35)	(38)	(36)	(23)	(39)	(41)
Sarcoma, Metastatic, Skin						
Intestine Large	(0)	(0)	(0)	(0)	(0)	(0)
Anus, Squamous Cell Carcinoma						
Intestine Large, Cecum	(39)	(37)	(40)	(31)	(46)	(40)
Carcinoma						
Intestine Large, Colon	(44)	(42)	(41)	(37)	(47)	(43)
Intestine Large, Rectum	(45)	(47)	(45)	(44)	(47)	(47)
Carcinoma						
Sarcoma, Metastatic, Skin						
Intestine Small, Duodenum	(35)	(38)	(36)	(26)	(43)	(42)
Hemangioma						
Polyp Adenomatous						
Intestine Small, Ileum	(37)	(37)	(35)	(26)	(42)	(42)
Intestine Small, Jejunum	(39)	(39)	(37)	(24)	(42)	(41)

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Carcinoma			1 (3%)			
Liver	(46)	(47)	(46)	(44)	(47)	(48)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Hemangioma						
Hemangiosarcoma	1 (2%)	2 (4%)	5 (11%)	13 (30%)	3 (6%)	4 (8%)
Hepatoblastoma		1 (2%)				
Hepatocellular Adenoma	5 (11%)	10 (21%)	13 (28%)	10 (23%)	10 (21%)	13 (27%)
Hepatocellular Adenoma, Multiple	2 (4%)	3 (6%)	4 (9%)	7 (16%)	2 (4%)	2 (4%)
Hepatocellular Carcinoma	6 (13%)	6 (13%)	8 (17%)	8 (18%)	5 (11%)	3 (6%)
Hepatocellular Carcinoma, Multiple	1 (2%)		1 (2%)	1 (2%)	1 (2%)	2 (4%)
Ito Cell Tumor Malignant						
Sarcoma, Metastatic, Skin				2 (5%)	1 (2%)	
Mesentery	(1)	(1)	(1)	(1)	(0)	(3)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						1 (33%)
Hemangiosarcoma						
Sarcoma						
Sarcoma, Metastatic, Skin				1 (100%)		
Pancreas	(45)	(44)	(44)	(42)	(47)	(45)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						1 (2%)
Hemangioma						
Hemangiosarcoma			1 (2%)			1 (2%)
Sarcoma, Metastatic, Skin						
Salivary Glands	(47)	(48)	(46)	(46)	(48)	(48)
Neoplasm Nos, Metastatic, Thymus	1 (2%)					
Rhabdomyosarcoma, Metastatic, Skeletal Muscle						

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Sarcoma, Metastatic, Skin	1 (2%)				1 (2%)	
Stomach, Forestomach	(46)	(47)	(44)	(45)	(47)	(47)
Hemangioma						
Hemangiosarcoma				1 (2%)		
Sarcoma, Metastatic, Skin						
Serosa, Hemangiosarcoma				1 (2%)		
Squamous Cell Carcinoma		1 (2%)		2 (4%)	1 (2%)	
Squamous Cell Papilloma		1 (2%)	3 (7%)	3 (7%)		4 (9%)
Stomach, Glandular	(43)	(43)	(44)	(42)	(47)	(45)
Adenoma						
Carcinoma		1 (2%)				
Serosa, Sarcoma, Metastatic, Skin				1 (2%)		
Tongue	(47)	(48)	(47)	(48)	(47)	(48)
Squamous Cell Carcinoma						
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(47)	(46)	(47)	(45)	(48)	(48)
Heart	(48)	(48)	(47)	(48)	(48)	(48)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (2%)			1 (2%)
Hemangioma		1 (2%)	1 (2%)			
Hemangiosarcoma			1 (2%)	5 (10%)		
Neoplasm Nos, Metastatic, Thymus	1 (2%)					
Sarcoma, Metastatic, Skin						
Sarcoma, Metastatic, Thymus						
Schwannoma Malignant				1 (2%)		
<b>ENDOCRINE SYSTEM</b>						
Adrenal Gland	(0)	(0)	(0)	(0)	(0)	(0)

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B6C3F1/NCTR Mouse MALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMURE
Rhabdomyosarcoma, Metastatic, Skeletal Muscle						
Adrenal Gland, Cortex	(44)	(44)	(44)	(44)	(46)	(45)
Adenoma	1 (2%)	1 (2%)			2 (4%)	1 (2%)
Sarcoma, Metastatic, Skin						
Subcapsular, Adenoma	1 (2%)	1 (2%)	1 (2%)		1 (2%)	
Adrenal Gland, Medulla	(44)	(43)	(42)	(43)	(44)	(42)
Bilateral, Pheochromocytoma Benign				1 (2%)		
Pheochromocytoma Benign			2 (5%)	5 (12%)	2 (5%)	2 (5%)
Pheochromocytoma Malignant						
Sarcoma, Metastatic, Skin						
Islets, Pancreatic	(45)	(44)	(44)	(42)	(47)	(45)
Adenoma				1 (2%)		
Carcinoma						
Parathyroid Gland	(42)	(33)	(30)	(28)	(37)	(40)
Pituitary Gland	(35)	(42)	(39)	(38)	(46)	(42)
Pars Distalis, Adenoma					1 (2%)	
Thyroid Gland	(46)	(46)	(46)	(45)	(46)	(48)
Follicular Cel, Adenoma	2 (4%)	2 (4%)			1 (2%)	2 (4%)
<b>GENERAL BODY SYSTEM</b>						
Tissue NOS	(0)	(0)	(0)	(0)	(1)	(0)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
<b>GENITAL SYSTEM</b>						
Coagulating Gland	(46)	(48)	(46)	(46)	(46)	(48)
Epididymis	(47)	(48)	(46)	(44)	(48)	(48)
Hemangioma						

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Neoplasm Nos, Metastatic, Thymus	1 (2%)					
Penis	(0)	(1)	(1)	(2)	(0)	(0)
Preputial Gland	(45)	(44)	(43)	(43)	(46)	(45)
Adenoma						1 (2%)
Carcinoma			1 (2%)			
Hemangioma						
Hemangiosarcoma						
Sarcoma, Metastatic, Skin					1 (2%)	
Prostate	(46)	(45)	(45)	(45)	(46)	(47)
Neoplasm Nos, Metastatic, Thymus	1 (2%)					
Seminal Vesicle	(46)	(48)	(46)	(46)	(47)	(48)
Adenoma						
Hemangiosarcoma						
Sarcoma, Metastatic, Mesentery						
Testes	(47)	(48)	(46)	(46)	(48)	(48)
Bilateral, Lipoma						
Hemangioma						
Interstit Cell, Adenoma						
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(46)	(47)	(45)	(45)	(48)	(48)
Hemangiosarcoma	1 (2%)	1 (2%)				
Lymph Node	(2)	(7)	(7)	(6)	(5)	(3)
Axillary, Sarcoma, Metastatic, Skin	1 (50%)					
Inguinal, Hemangiosarcoma						
Mediastinal, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (14%)			
Mediastinal, Hepatoblastoma, Metastatic, Liver		1 (14%)				

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Mediastinal, Sarcoma, Metastatic, Skin						1 (33%)
Pancreatic, Carcinoma, Metastatic, Stomach		1 (14%)				
Renal, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Squamous Cell Carcinoma, Metastatic, Skin						
Lymph Node, Mandibular Carcinoma, Metastatic, Harderian Gland	(46)	(46)	(46)	(45)	(48)	(48)
Hemangiosarcoma	1 (2%)					
Neoplasm Nos	1 (2%)					
Sarcoma, Metastatic, Skin					1 (2%)	
Lymph Node, Mesenteric Carcinoma, Metastatic, Harderian Gland	(43)	(47)	(43)	(38)	(48)	(48)
Hemangiosarcoma				1 (3%)		
Neoplasm Nos, Metastatic, Thymus	1 (2%)					
Sarcoma		1 (2%)				
Sarcoma, Metastatic, Skin						
Spleen	(44)	(46)	(45)	(42)	(46)	(46)
Hemangioma			1 (2%)	1 (2%)		
Hemangiosarcoma	2 (5%)	2 (4%)	2 (4%)	5 (12%)		
Sarcoma, Metastatic, Skin						
Thymus	(32)	(29)	(35)	(27)	(35)	(32)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung			1 (3%)			1 (3%)
Neoplasm Nos	1 (3%)					
Sarcoma						
Sarcoma, Metastatic, Skin				1 (4%)		
Sarcoma, Metastatic, Uncertain Primary Site	1 (3%)					

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<hr/>						
Thymoma Benign						
<hr/>						
INTEGUMENTARY SYSTEM						
Mammary Gland	(0)	(2)	(5)	(1)	(0)	(2)
Carcinoma				1 (100%)		
Skin	(47)	(48)	(47)	(48)	(48)	(48)
Basal Cell Adenoma			2 (4%)	1 (2%)		1 (2%)
Basal Cell Carcinoma		1 (2%)		1 (2%)		
Fibroma		2 (4%)	3 (6%)		2 (4%)	3 (6%)
Fibroma, Multiple	1 (2%)					
Hemangioma		1 (2%)		1 (2%)		
Hemangiosarcoma	1 (2%)			2 (4%)		
Lipoma				1 (2%)		
Neoplasm Nos				1 (2%)		
Osteosarcoma						
Prepuce, Fibroma						1 (2%)
Rhabdomyosarcoma, Metastatic, Skeletal Muscle		1 (2%)			1 (2%)	
Sarcoma	9 (19%)	7 (15%)	5 (11%)	9 (19%)	16 (33%)	9 (19%)
Sarcoma, Multiple	1 (2%)	2 (4%)		5 (10%)		1 (2%)
Sebaceous GI, Adenoma						
Squamous Cell Carcinoma			2 (4%)	1 (2%)		1 (2%)
Squamous Cell Papilloma		1 (2%)	1 (2%)	3 (6%)		
Squamous Cell Papilloma, Multiple				2 (4%)		
Tail, Fibroma				1 (2%)		1 (2%)
<hr/>						
MUSCULOSKELETAL SYSTEM						
Bone	(48)	(48)	(47)	(48)	(48)	(48)

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Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Cranium, Hemangiosarcoma				1 (2%)		
Sternum, Carcinoma, Metastatic, Harderian Gland						
Sternum, Sarcoma, Metastatic, Uncertain Primary Site	1 (2%)					
Vertebra, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Skeletal Muscle	(48)	(48)	(47)	(48)	(48)	(48)
Alveolar/Bronchiolar Carcinoma, Metastatic				1 (2%)		
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						1 (2%)
Diaphragm, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung				1 (2%)		
Fibrosarcoma					1 (2%)	
Neoplasm Nos, Metastatic, Thymus	1 (2%)					
Rhabdomyosarcoma	1 (2%)	1 (2%)			1 (2%)	
Sarcoma				1 (2%)		
Sarcoma, Metastatic, Skin					1 (2%)	
<b>NERVOUS SYSTEM</b>						
Brain, Cerebellum	(48)	(47)	(44)	(46)	(47)	(48)
Brain, Cerebrum	(48)	(48)	(47)	(47)	(48)	(48)
Oligodendroglioma Malignant						1 (2%)
Peripheral Nerve	(47)	(48)	(47)	(48)	(48)	(48)
Schwannoma Malignant						
Spinal Cord, Thoracic	(47)	(48)	(47)	(48)	(48)	(48)
<b>RESPIRATORY SYSTEM</b>						
Larynx	(45)	(45)	(46)	(45)	(44)	(47)

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Lung	(48)	(48)	(47)	(48)	(48)	(48)
Alveolar/Bronchiolar Adenoma	3 (6%)	15 (31%)	15 (32%)	14 (29%)	9 (19%)	14 (29%)
Alveolar/Bronchiolar Adenoma, Multiple	1 (2%)	2 (4%)	7 (15%)	20 (42%)	1 (2%)	2 (4%)
Alveolar/Bronchiolar Carcinoma	1 (2%)	1 (2%)	8 (17%)	8 (17%)	2 (4%)	3 (6%)
Alveolar/Bronchiolar Carcinoma, Multiple			1 (2%)	1 (2%)		
Basal Cell Carcinoma, Metastatic, Skin		1 (2%)				
Carcinoma, Metastatic, Harderian Gland						
Hemangiosarcoma				1 (2%)		
Hepatoblastoma, Metastatic, Liver		1 (2%)				
Hepatocellular Carcinoma				1 (2%)		
Hepatocellular Carcinoma, Metastatic, Liver	4 (8%)		2 (4%)	1 (2%)	2 (4%)	1 (2%)
Hepatocellular Carcinoma, Multiple, Metastatic, Liver				1 (2%)		
Neoplasm Nos	1 (2%)					
Neoplasm Nos, Metastatic, Thymus	1 (2%)					
Rhabdomyosarcoma, Metastatic, Skeletal Muscle						
Sarcoma, Metastatic, Skin	1 (2%)	2 (4%)	1 (2%)	3 (6%)	1 (2%)	
Sarcoma, Metastatic, Thymus						
Schwannoma Malignant, Metastatic, Lung				1 (2%)		
Schwannoma Malignant, Metastatic, Nose		1 (2%)				
Nose	(47)	(48)	(47)	(47)	(48)	(48)
Mucosa, Hemangioma				1 (2%)		
Schwannoma Malignant		1 (2%)				
Trachea	(47)	(47)	(46)	(46)	(47)	(48)
<b>SPECIAL SENSES SYSTEM</b>						
Ear	(0)	(0)	(0)	(0)	(0)	(0)
Eye	(47)	(47)	(47)	(47)	(47)	(47)

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Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						1 (2%)
Schwannoma Malignant, Metastatic, Peripheral Nerve						
Harderian Gland	(47)	(47)	(47)	(47)	(48)	(48)
Adenoma	3 (6%)	10 (21%)	21 (45%)	21 (45%)	6 (13%)	13 (27%)
Bilateral, Adenoma		1 (2%)	4 (9%)	7 (15%)		1 (2%)
Bilateral, Carcinoma			1 (2%)	2 (4%)		
Carcinoma		1 (2%)	6 (13%)	14 (30%)		
Lacrimal Gland	(47)	(47)	(44)	(47)	(48)	(47)
Zymbal's Gland	(45)	(45)	(45)	(45)	(47)	(45)
Basosquamous Tumor Benign			1 (2%)			
Carcinoma						
Sarcoma, Metastatic, Skin						
<b>URINARY SYSTEM</b>						
Kidney	(46)	(47)	(46)	(45)	(48)	(48)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						1 (2%)
Hemangiosarcoma				1 (2%)		
Renal Tubule, Adenoma			1 (2%)	1 (2%)		
Renal Tubule, Adenoma, Multiple						
Renal Tubule, Carcinoma						
Sarcoma, Metastatic, Skin						
Ureter	(0)	(0)	(0)	(0)	(0)	(0)
Urethra	(0)	(1)	(0)	(1)	(0)	(0)
Urinary Bladder	(46)	(46)	(46)	(40)	(47)	(46)
Carcinoma						
Hemangioma						

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Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS  
ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:34

First Dose M/F: NA / NA

Lab: NCTR

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<b>B6C3F1/NCTR Mouse MALE</b>	<b>0% ETH/ 0PPM URE</b>	<b>0% ETH/ 10PPMURE</b>	<b>0% ETH/ 30PPMURE</b>	<b>0% ETH/ 90PPMURE</b>	<b>2.5%ETH/0PPM URE</b>	<b>2.5%ETH/10PPMUR E</b>
SYSTEMIC LESIONS						
Multiple Organ	*(48)	*(48)	*(47)	*(48)	*(48)	*(48)
Histiocytic Sarcoma	3 (6%)	3 (6%)	6 (13%)	2 (4%)	1 (2%)	4 (8%)
Leukemia Granulocytic				1 (2%)		
Lymphoma Malignant	9 (19%)	7 (15%)	6 (13%)	4 (8%)	11 (23%)	6 (13%)
Mesothelioma Malignant					1 (2%)	
Mesothelioma Nos						1 (2%)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

## P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:34

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse MALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
<b>Disposition Summary</b>						
Animals Initially In Study	48	48	48	48	48	48
Early Deaths						
Moribund	5	6	4	3	6	11
Natural Death	14	19	4	12	15	17
Survivors						
Moribund	2	3	1	3		4
Natural Death	2	4	3	1	2	4
Terminal Sacrifice	25	16	36	29	25	12
Animals Examined Microscopically	47	48	48	48	48	48
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(46)	(48)	(47)	(46)	(48)	(48)
Gallbladder	(40)	(39)	(42)	(37)	(30)	(32)
Sarcoma, Metastatic, Skin		1 (3%)				
Intestine Large	(0)	(0)	(0)	(0)	(2)	(2)
Anus, Squamous Cell Carcinoma						1 (50%)
Intestine Large, Cecum	(42)	(43)	(45)	(45)	(38)	(39)
Carcinoma			1 (2%)			
Intestine Large, Colon	(44)	(46)	(47)	(45)	(43)	(43)
Intestine Large, Rectum	(47)	(47)	(47)	(46)	(48)	(46)
Carcinoma				1 (2%)		
Sarcoma, Metastatic, Skin					1 (2%)	
Intestine Small, Duodenum	(40)	(42)	(46)	(43)	(36)	(38)
Hemangioma						1 (3%)
Polyp Adenomatous		1 (2%)	1 (2%)		1 (3%)	
Intestine Small, Ileum	(41)	(41)	(42)	(43)	(36)	(39)
Intestine Small, Jejunum	(41)	(37)	(45)	(46)	(38)	(36)

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\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

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First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse MALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Carcinoma						
Liver	(46)	(48)	(48)	(46)	(48)	(48)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		1 (2%)				
Hemangioma				2 (4%)	2 (4%)	
Hemangiosarcoma	3 (7%)	11 (23%)	2 (4%)	2 (4%)	4 (8%)	13 (27%)
Hepatoblastoma						1 (2%)
Hepatocellular Adenoma	12 (26%)	13 (27%)	17 (35%)	6 (13%)	13 (27%)	9 (19%)
Hepatocellular Adenoma, Multiple	4 (9%)	11 (23%)	2 (4%)	3 (7%)	3 (6%)	3 (6%)
Hepatocellular Carcinoma	5 (11%)	4 (8%)	7 (15%)	9 (20%)	2 (4%)	9 (19%)
Hepatocellular Carcinoma, Multiple						
Ito Cell Tumor Malignant					1 (2%)	
Sarcoma, Metastatic, Skin		3 (6%)	1 (2%)		1 (2%)	
Mesentery	(2)	(3)	(4)	(1)	(2)	(0)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Hemangiosarcoma			1 (25%)		1 (50%)	
Sarcoma	1 (50%)					
Sarcoma, Metastatic, Skin						
Pancreas	(46)	(46)	(48)	(46)	(45)	(44)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Hemangioma					1 (2%)	
Hemangiosarcoma						
Sarcoma, Metastatic, Skin		1 (2%)				
Salivary Glands	(46)	(48)	(48)	(48)	(48)	(48)
Neoplasm Nos, Metastatic, Thymus						
Rhabdomyosarcoma, Metastatic, Skeletal Muscle						1 (2%)

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b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:35

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse MALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Sarcoma, Metastatic, Skin			1 (2%)			
Stomach, Forestomach	(46)	(46)	(48)	(47)	(45)	(48)
Hemangioma						1 (2%)
Hemangiosarcoma		1 (2%)				
Sarcoma, Metastatic, Skin						
Serosa, Hemangiosarcoma						
Squamous Cell Carcinoma		2 (4%)		1 (2%)	1 (2%)	1 (2%)
Squamous Cell Papilloma	1 (2%)	2 (4%)	2 (4%)	2 (4%)	3 (7%)	5 (10%)
Stomach, Glandular	(45)	(46)	(48)	(46)	(45)	(45)
Adenoma		1 (2%)	1 (2%)			
Carcinoma						
Serosa, Sarcoma, Metastatic, Skin						
Tongue	(46)	(48)	(48)	(48)	(48)	(48)
Squamous Cell Carcinoma				1 (2%)		1 (2%)
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(45)	(48)	(47)	(46)	(47)	(47)
Heart	(47)	(48)	(47)	(48)	(48)	(48)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		1 (2%)				2 (4%)
Hemangioma						
Hemangiosarcoma	2 (4%)	4 (8%)			1 (2%)	4 (8%)
Neoplasm Nos, Metastatic, Thymus						
Sarcoma, Metastatic, Skin		1 (2%)				
Sarcoma, Metastatic, Thymus						1 (2%)
Schwannoma Malignant						
<b>ENDOCRINE SYSTEM</b>						
Adrenal Gland	(0)	(0)	(0)	(0)	(0)	(1)

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\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Date Report Requested: 10/18/2014

Test Type: CHRONIC

Test Compound: Urethane + ethanol (combination)

Time Report Requested: 00:14:35

Route: DOSED WATER

CAS Number: URETHCOMB

First Dose M/F: NA / NA

Species/Strain: Mouse/B6C3F1/NCTR

Lab: NCTR

B6C3F1/NCTR Mouse MALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Rhabdomyosarcoma, Metastatic, Skeletal Muscle						1 (100%)
Adrenal Gland, Cortex	(46)	(46)	(46)	(47)	(47)	(45)
Adenoma			2 (4%)	3 (6%)	1 (2%)	
Sarcoma, Metastatic, Skin		1 (2%)				
Subcapsular, Adenoma	1 (2%)		1 (2%)			
Adrenal Gland, Medulla	(45)	(46)	(46)	(46)	(46)	(45)
Bilateral, Pheochromocytoma Benign		1 (2%)				
Pheochromocytoma Benign	2 (4%)	3 (7%)	2 (4%)	6 (13%)	3 (7%)	2 (4%)
Pheochromocytoma Malignant						1 (2%)
Sarcoma, Metastatic, Skin		1 (2%)				
Islets, Pancreatic	(46)	(46)	(48)	(46)	(46)	(44)
Adenoma		2 (4%)		1 (2%)		
Carcinoma					1 (2%)	
Parathyroid Gland	(43)	(38)	(38)	(38)	(41)	(37)
Pituitary Gland	(41)	(42)	(39)	(39)	(42)	(42)
Pars Distalis, Adenoma						
Thyroid Gland	(46)	(47)	(45)	(47)	(48)	(47)
Follicular Cel, Adenoma	1 (2%)	2 (4%)	1 (2%)			
<b>GENERAL BODY SYSTEM</b>						
Tissue NOS	(0)	(0)	(0)	(0)	(0)	(1)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						1 (100%)
<b>GENITAL SYSTEM</b>						
Coagulating Gland	(45)	(46)	(47)	(47)	(48)	(44)
Epididymis	(46)	(48)	(48)	(48)	(48)	(47)
Hemangioma	1 (2%)	1 (2%)				

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\* Number of animals with any tissue examined microscopically



Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:35

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse MALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Neoplasm Nos, Metastatic, Thymus						
Penis	(2)	(2)	(0)	(0)	(2)	(0)
Preputial Gland	(45)	(46)	(45)	(46)	(45)	(44)
Adenoma						
Carcinoma						
Hemangioma	1 (2%)	3 (7%)			1 (2%)	
Hemangiosarcoma	1 (2%)	1 (2%)				
Sarcoma, Metastatic, Skin						
Prostate	(43)	(48)	(46)	(46)	(45)	(48)
Neoplasm Nos, Metastatic, Thymus						
Seminal Vesicle	(46)	(47)	(47)	(47)	(48)	(45)
Adenoma					1 (2%)	
Hemangiosarcoma		1 (2%)				
Sarcoma, Metastatic, Mesentery	1 (2%)					
Testes	(47)	(47)	(48)	(48)	(48)	(48)
Bilateral, Lipoma	1 (2%)					
Hemangioma			1 (2%)			
Interstit Cell, Adenoma				1 (2%)		
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(47)	(46)	(48)	(46)	(46)	(46)
Hemangiosarcoma				1 (2%)		
Lymph Node	(4)	(6)	(2)	(3)	(6)	(10)
Axillary, Sarcoma, Metastatic, Skin		1 (17%)				
Inguinal, Hemangiosarcoma		1 (17%)				
Mediastinal, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Mediastinal, Hepatoblastoma, Metastatic, Liver						

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

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First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse MALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Mediastinal, Sarcoma, Metastatic, Skin						
Pancreatic, Carcinoma, Metastatic, Stomach						
Renal, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						1 (10%)
Squamous Cell Carcinoma, Metastatic, Skin	1 (25%)					
Lymph Node, Mandibular	(45)	(47)	(48)	(47)	(48)	(47)
Carcinoma, Metastatic, Harderian Gland		1 (2%)				
Hemangiosarcoma		1 (2%)				
Neoplasm Nos						
Sarcoma, Metastatic, Skin			2 (4%)	1 (2%)		
Lymph Node, Mesenteric	(45)	(44)	(46)	(44)	(42)	(43)
Carcinoma, Metastatic, Harderian Gland		1 (2%)				
Hemangiosarcoma		3 (7%)				1 (2%)
Neoplasm Nos, Metastatic, Thymus						
Sarcoma						
Sarcoma, Metastatic, Skin		1 (2%)				
Spleen	(46)	(46)	(48)	(46)	(46)	(45)
Hemangioma	1 (2%)					
Hemangiosarcoma	1 (2%)	3 (7%)		1 (2%)		1 (2%)
Sarcoma, Metastatic, Skin					1 (2%)	
Thymus	(28)	(32)	(34)	(33)	(32)	(35)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		2 (6%)				2 (6%)
Neoplasm Nos						
Sarcoma						1 (3%)
Sarcoma, Metastatic, Skin		1 (3%)				
Sarcoma, Metastatic, Uncertain Primary Site						

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

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\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

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First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse MALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Thymoma Benign					1 (3%)	1 (3%)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(2)	(1)	(1)	(1)	(2)	(1)
Carcinoma						
Skin	(46)	(47)	(48)	(47)	(48)	(45)
Basal Cell Adenoma						2 (4%)
Basal Cell Carcinoma						
Fibroma			2 (4%)	2 (4%)	1 (2%)	1 (2%)
Fibroma, Multiple	1 (2%)				1 (2%)	
Hemangioma						
Hemangiosarcoma	4 (9%)	1 (2%)				1 (2%)
Lipoma						1 (2%)
Neoplasm Nos						
Osteosarcoma					1 (2%)	
Prepuce, Fibroma						
Rhabdomyosarcoma, Metastatic, Skeletal Muscle						
Sarcoma	9 (20%)	7 (15%)	10 (21%)	8 (17%)	12 (25%)	11 (24%)
Sarcoma, Multiple	1 (2%)	1 (2%)	2 (4%)	2 (4%)	3 (6%)	1 (2%)
Sebaceous GI, Adenoma						1 (2%)
Squamous Cell Carcinoma	2 (4%)	4 (9%)				1 (2%)
Squamous Cell Papilloma	2 (4%)	3 (6%)		2 (4%)		6 (13%)
Squamous Cell Papilloma, Multiple						
Tail, Fibroma						
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(47)	(48)	(48)	(48)	(47)	(47)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

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First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse MALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		1 (2%)				
Cranium, Hemangiosarcoma						
Sternum, Carcinoma, Metastatic, Harderian Gland						1 (2%)
Sternum, Sarcoma, Metastatic, Uncertain Primary Site						
Vertebra, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		1 (2%)				
Skeletal Muscle	(47)	(48)	(48)	(48)	(48)	(47)
Alveolar/Bronchiolar Carcinoma, Metastatic		1 (2%)				
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Diaphragm, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		1 (2%)				
Fibrosarcoma						
Neoplasm Nos, Metastatic, Thymus						
Rhabdomyosarcoma					1 (2%)	1 (2%)
Sarcoma				1 (2%)		
Sarcoma, Metastatic, Skin		1 (2%)		1 (2%)		
<b>NERVOUS SYSTEM</b>						
Brain, Cerebellum	(47)	(48)	(47)	(48)	(46)	(46)
Brain, Cerebrum	(47)	(48)	(48)	(48)	(48)	(48)
Oligodendroglioma Malignant						
Peripheral Nerve	(47)	(48)	(47)	(48)	(48)	(47)
Schwannoma Malignant			1 (2%)			
Spinal Cord, Thoracic	(47)	(48)	(48)	(48)	(48)	(48)
<b>RESPIRATORY SYSTEM</b>						
Larynx	(46)	(47)	(46)	(47)	(45)	(47)

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\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

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First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse MALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Lung	(47)	(48)	(48)	(48)	(48)	(48)
Alveolar/Bronchiolar Adenoma	11 (23%)	11 (23%)	5 (10%)	7 (15%)	6 (13%)	19 (40%)
Alveolar/Bronchiolar Adenoma, Multiple	8 (17%)	24 (50%)	1 (2%)	1 (2%)	3 (6%)	14 (29%)
Alveolar/Bronchiolar Carcinoma	7 (15%)	20 (42%)	5 (10%)	4 (8%)	5 (10%)	15 (31%)
Alveolar/Bronchiolar Carcinoma, Multiple	1 (2%)	4 (8%)				2 (4%)
Basal Cell Carcinoma, Metastatic, Skin						
Carcinoma, Metastatic, Harderian Gland		1 (2%)				1 (2%)
Hemangiosarcoma						1 (2%)
Hepatoblastoma, Metastatic, Liver						
Hepatocellular Carcinoma						
Hepatocellular Carcinoma, Metastatic, Liver	2 (4%)	3 (6%)		2 (4%)	1 (2%)	2 (4%)
Hepatocellular Carcinoma, Multiple, Metastatic, Liver						
Neoplasm Nos						
Neoplasm Nos, Metastatic, Thymus						
Rhabdomyosarcoma, Metastatic, Skeletal Muscle						1 (2%)
Sarcoma, Metastatic, Skin		3 (6%)	1 (2%)	4 (8%)	2 (4%)	
Sarcoma, Metastatic, Thymus						1 (2%)
Schwannoma Malignant, Metastatic, Lung						
Schwannoma Malignant, Metastatic, Nose						
Nose	(47)	(48)	(48)	(48)	(48)	(46)
Mucosa, Hemangioma						
Schwannoma Malignant						
Trachea	(45)	(48)	(47)	(48)	(48)	(48)
<b>SPECIAL SENSES SYSTEM</b>						
Ear	(1)	(0)	(0)	(0)	(0)	(1)
Eye	(47)	(46)	(48)	(48)	(48)	(46)

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\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

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First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse MALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Schwannoma Malignant, Metastatic, Peripheral Nerve			1 (2%)			
Harderian Gland	(47)	(48)	(47)	(48)	(48)	(45)
Adenoma	17 (36%)	19 (40%)	5 (11%)	12 (25%)	12 (25%)	16 (36%)
Bilateral, Adenoma	4 (9%)	8 (17%)			3 (6%)	10 (22%)
Bilateral, Carcinoma		3 (6%)				3 (7%)
Carcinoma	1 (2%)	13 (27%)		2 (4%)	2 (4%)	7 (16%)
Lacrimal Gland	(45)	(46)	(47)	(47)	(48)	(47)
Zymbal's Gland	(46)	(43)	(46)	(45)	(47)	(42)
Basosquamous Tumor Benign						
Carcinoma						1 (2%)
Sarcoma, Metastatic, Skin	1 (2%)					
<b>URINARY SYSTEM</b>						
Kidney	(47)	(47)	(48)	(47)	(48)	(48)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						1 (2%)
Hemangiosarcoma		2 (4%)				3 (6%)
Renal Tubule, Adenoma						
Renal Tubule, Adenoma, Multiple		1 (2%)				
Renal Tubule, Carcinoma						1 (2%)
Sarcoma, Metastatic, Skin		1 (2%)			2 (4%)	
Ureter	(1)	(0)	(0)	(0)	(0)	(0)
Urethra	(0)	(0)	(0)	(1)	(3)	(0)
Urinary Bladder	(45)	(46)	(48)	(47)	(48)	(45)
Carcinoma						1 (2%)
Hemangioma			2 (4%)	1 (2%)		

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS  
ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:35

First Dose M/F: NA / NA

Lab: NCTR

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<b>B6C3F1/NCTR Mouse MALE</b>	<b>2.5%ETH/30PPMUR E</b>	<b>2.5%ETH/90PPMUR E</b>	<b>5.0%ETH/0PPM URE</b>	<b>5.0%ETH/10PPMUR E</b>	<b>5.0%ETH/30PPMUR E</b>	<b>5.0%ETH/90PPMUR E</b>
<hr/>						
SYSTEMIC LESIONS						
Multiple Organ	*(47)	*(48)	*(48)	*(48)	*(48)	*(48)
Histiocytic Sarcoma	5 (11%)	7 (15%)	2 (4%)		4 (8%)	5 (10%)
Leukemia Granulocytic				1 (2%)		
Lymphoma Malignant	10 (21%)	7 (15%)	12 (25%)	10 (21%)	8 (17%)	14 (29%)
Mesothelioma Malignant	1 (2%)					
Mesothelioma Nos						

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS  
 ABRIDGED) (a)**  
 Test Compound: Urethane + ethanol (combination)  
 CAS Number: URETHCOMB

Date Report Requested: 10/18/2014  
 Time Report Requested: 00:14:35  
 First Dose M/F: NA / NA  
 Lab: NCTR

B6C3F1/NCTR Mouse MALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMUR E
<b>Tumor Summary for MALE</b>						
Total Animals with Primary Neoplasms (b)	33	39	46	47	41	45
Total Primary Neoplasms	59	90	135	196	80	97
Total Animals with Benign Neoplasms	17	29	41	45	27	33
Total Benign Neoplasms	19	51	80	101	37	61
Total Animals with Malignant Neoplasms	27	30	37	43	31	32
Total Malignant Neoplasms	37	39	55	94	43	35
Total Animals with Metastatic Neoplasms	7	6	5	8	10	4
Total Metastatic Neoplasms	16	8	6	13	18	16
Total Animals with Malignant Neoplasms Uncertain Primary Site	1					
Total Animals with Neoplasms Uncertain - Benign or Malignant	2			1		1
Total Uncertain Neoplasms	2			1		1

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically



Experiment Number: 00602-05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**  
 Test Compound: Urethane + ethanol (combination)  
 CAS Number: URETHCOMB

Date Report Requested: 10/18/2014  
 Time Report Requested: 00:14:35  
 First Dose M/F: NA / NA  
 Lab: NCTR

B6C3F1/NCTR Mouse MALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
<b>Tumor Summary for MALE</b>						
Total Animals with Primary Neoplasms (b)	42	47	42	41	44	46
Total Primary Neoplasms	122	206	88	93	103	194
Total Animals with Benign Neoplasms	37	46	30	29	32	40
Total Benign Neoplasms	68	106	45	49	56	92
Total Animals with Malignant Neoplasms	33	45	31	30	37	45
Total Malignant Neoplasms	54	100	43	44	47	102
Total Animals with Metastatic Neoplasms	5	11	5	6	4	8
Total Metastatic Neoplasms	5	31	6	8	8	16
Total Animals with Malignant Neoplasms Uncertain Primary Site						
Total Animals with Neoplasms Uncertain - Benign or Malignant						
Total Uncertain Neoplasms						

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

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:35

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMURE
<b>Disposition Summary</b>						
Animals Initially In Study	48	48	48	48	48	47
<b>Early Deaths</b>						
Drowned					4	3
Moribund	1	3	4	14	1	2
Natural Death	5	7	13	22	2	7
<b>Survivors</b>						
Moribund			1	4		2
Natural Death	4	1	3	7	2	
Terminal Sacrifice	38	37	27	1	39	33
Animals Examined Microscopically	48	48	48	48	47	47
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(48)	(47)	(47)	(47)	(47)	(47)
Sarcoma, Metastatic, Kidney						
Gallbladder	(47)	(45)	(46)	(43)	(47)	(45)
Leiomyosarcoma, Metastatic, Uterus			1 (2%)			
Sarcoma, Metastatic, Skin				1 (2%)		
Intestine Large	(0)	(0)	(0)	(0)	(0)	(0)
Intestine Large, Cecum	(48)	(45)	(46)	(45)	(47)	(45)
Mast Cell Tumor Malignant						
Intestine Large, Colon	(48)	(44)	(46)	(46)	(47)	(45)
Sarcoma, Metastatic, Skin				1 (2%)		
Sarcoma, Metastatic, Uncertain Primary Site				1 (2%)		
Sarcoma, Metastatic, Uterus			1 (2%)			
Intestine Large, Rectum	(48)	(45)	(45)	(46)	(47)	(44)
Leiomyosarcoma, Metastatic, Uterus			1 (2%)			

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:36

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMURE
Sarcoma, Metastatic, Skin						
Sarcoma, Metastatic, Uterus			1 (2%)			
Squamous Cell Carcinoma						
Intestine Small	(0)	(1)	(0)	(0)	(0)	(0)
Polyp Adenomatous		1 (100%)				
Intestine Small, Duodenum	(48)	(43)	(44)	(44)	(47)	(45)
Adenoma						
Intestine Small, Ileum	(48)	(44)	(46)	(44)	(47)	(45)
Intestine Small, Jejunum	(48)	(44)	(46)	(44)	(47)	(45)
Hemangioma						
Leiomyosarcoma, Metastatic, Uterus			1 (2%)			
Sarcoma Stromal, Metastatic, Uterus						
Sarcoma, Metastatic, Skin						
Liver	(48)	(47)	(47)	(47)	(47)	(47)
Hemangiosarcoma			1 (2%)	7 (15%)	1 (2%)	2 (4%)
Hepatocellular Adenoma	3 (6%)	8 (17%)	10 (21%)	2 (4%)	4 (9%)	
Hepatocellular Adenoma, Multiple	2 (4%)	2 (4%)	9 (19%)	16 (34%)	2 (4%)	5 (11%)
Hepatocellular Carcinoma		1 (2%)	2 (4%)	1 (2%)	1 (2%)	
Hepatocellular Carcinoma, Multiple						
Ito Cell Tumor Malignant					1 (2%)	
Leiomyosarcoma, Metastatic, Uterus			1 (2%)			
Mast Cell Tumor Malignant						
Osteosarcoma, Metastatic, Bone						1 (2%)
Sarcoma Stromal, Metastatic, Uterus						
Sarcoma, Metastatic, Skin				1 (2%)		
Mesentery	(3)	(4)	(7)	(6)	(2)	(5)
Hemangiosarcoma						
Sarcoma						1 (20%)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:36

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMURE
Sarcoma, Metastatic, Kidney						
Sarcoma, Metastatic, Skin				2 (33%)		
Pancreas	(48)	(43)	(47)	(44)	(47)	(45)
Leiomyosarcoma, Metastatic, Uterus			1 (2%)			
Sarcoma						1 (2%)
Sarcoma Stromal, Metastatic, Uterus						
Sarcoma, Metastatic, Kidney						
Sarcoma, Metastatic, Skin				1 (2%)		
Sarcoma, Metastatic, Uncertain Primary Site				1 (2%)		
Teratoma Malignant, Metastatic, Ovary						
Salivary Glands	(48)	(48)	(48)	(47)	(47)	(47)
Mast Cell Tumor Malignant						
Stomach	(0)	(0)	(0)	(0)	(0)	(0)
Stomach, Forestomach	(48)	(46)	(46)	(46)	(47)	(46)
Mast Cell Tumor Malignant			1 (2%)			
Sarcoma Stromal, Metastatic, Uterus						
Sarcoma, Metastatic, Kidney						
Squamous Cell Carcinoma		1 (2%)		1 (2%)		
Squamous Cell Papilloma	2 (4%)	3 (7%)	3 (7%)	3 (7%)		4 (9%)
Stomach, Glandular	(47)	(46)	(46)	(47)	(47)	(46)
Leiomyosarcoma, Metastatic, Uterus			1 (2%)			
Mast Cell Tumor Malignant						
Sarcoma, Metastatic, Skin						
Tongue	(48)	(48)	(48)	(46)	(47)	(47)
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(47)	(47)	(48)	(46)	(47)	(47)
Heart	(48)	(48)	(48)	(48)	(47)	(47)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:36

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMURE
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Hemangioma			1 (2%)			
Hemangiosarcoma			1 (2%)			
Squamous Cell Carcinoma, Metastatic, Intestine Large						
<b>ENDOCRINE SYSTEM</b>						
Adrenal Gland	(0)	(0)	(0)	(1)	(0)	(0)
Bilateral, Subcapsular, Adenoma						
Adrenal Gland, Cortex	(48)	(45)	(45)	(47)	(46)	(47)
Adenocarcinoma, Metastatic, Mammary Gland					1 (2%)	
Adenoma				1 (2%)	1 (2%)	
Bilateral, Adenoma				1 (2%)		
Hemangiosarcoma				1 (2%)		
Osteosarcoma, Metastatic, Bone						
Sarcoma Stromal, Metastatic, Uterus						
Sarcoma, Metastatic, Kidney						
Sarcoma, Metastatic, Skin						
Sarcoma, Metastatic, Uncertain Primary Site				1 (2%)		
Subcapsular, Adenoma	1 (2%)		1 (2%)			1 (2%)
Subcapsular, Carcinoma						
Adrenal Gland, Medulla	(47)	(42)	(43)	(47)	(45)	(47)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Pheochromocytoma Benign					1 (2%)	1 (2%)
Pheochromocytoma Malignant						
Islets, Pancreatic	(48)	(43)	(47)	(44)	(47)	(45)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Date Report Requested: 10/18/2014

Test Type: CHRONIC

Test Compound: Urethane + ethanol (combination)

Time Report Requested: 00:14:36

Route: DOSED WATER

CAS Number: URETHCOMB

First Dose M/F: NA / NA

Species/Strain: Mouse/B6C3F1/NCTR

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMURE
Adenoma	1 (2%)				1 (2%)	1 (2%)
Sarcoma, Metastatic, Skin						
Parathyroid Gland	(32)	(38)	(31)	(40)	(34)	(37)
Pituitary Gland	(42)	(42)	(40)	(39)	(44)	(41)
Meningioma Malignant, Metastatic, Brain						
Pars Distalis, Adenoma	7 (17%)	4 (10%)	5 (13%)	1 (3%)	7 (16%)	2 (5%)
Pars Distalis, Carcinoma						
Thyroid Gland	(47)	(47)	(47)	(45)	(46)	(47)
Follicular Cel, Adenoma	1 (2%)		1 (2%)	2 (4%)	1 (2%)	
Follicular Cel, Carcinoma				1 (2%)		
<b>GENERAL BODY SYSTEM</b>						
Tissue NOS	(1)	(1)	(1)	(4)	(0)	(1)
Abdominal, Sarcoma			1 (100%)			1 (100%)
Sarcoma				1 (25%)		
Thoracic, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
<b>GENITAL SYSTEM</b>						
Clitoral Gland	(43)	(41)	(43)	(37)	(40)	(40)
Ovary	(48)	(46)	(46)	(39)	(47)	(46)
Adenoma, Tubular			2 (4%)	1 (3%)	1 (2%)	
Cystadenoma	2 (4%)		1 (2%)	1 (3%)	1 (2%)	2 (4%)
Granulosa Cell Tumor Benign			2 (4%)	3 (8%)		
Granulosa Cell Tumor Malignant				3 (8%)		
Hemangioma	1 (2%)					
Hemangiosarcoma						
Luteoma		1 (2%)				
Sarcoma Stromal, Metastatic, Uterus						

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Date Report Requested: 10/18/2014

Test Type: CHRONIC

Test Compound: Urethane + ethanol (combination)

Time Report Requested: 00:14:36

Route: DOSED WATER

CAS Number: URETHCOMB

First Dose M/F: NA / NA

Species/Strain: Mouse/B6C3F1/NCTR

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMUR E
Sarcoma, Metastatic, Skin						
Teratoma Malignant						
Thecoma Benign						
Uterus	(48)	(47)	(48)	(46)	(47)	(47)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Endometrium, Adenoma		1 (2%)		1 (2%)		
Hemangioma		1 (2%)	2 (4%)			
Hemangiosarcoma				2 (4%)		
Leiomyoma					1 (2%)	
Leiomyosarcoma			1 (2%)			
Polyp Stromal			1 (2%)	1 (2%)		
Sarcoma			1 (2%)	1 (2%)		
Sarcoma Stromal	1 (2%)		1 (2%)			
Sarcoma, Metastatic, Skin						
Vagina	(48)	(47)	(46)	(43)	(47)	(47)
Basosquamous Tumor Benign		1 (2%)				
Hemangioma						
Leiomyosarcoma, Metastatic, Uterus			1 (2%)			
Sarcoma Stromal, Metastatic, Uterus						
Sarcoma, Metastatic, Skin	1 (2%)					
Sarcoma, Metastatic, Uterus			1 (2%)			
Squamous Cell Carcinoma				1 (2%)		
Squamous Cell Papilloma				1 (2%)		
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(48)	(47)	(46)	(47)	(47)	(46)
Hemangiosarcoma						
Lymph Node	(6)	(4)	(9)	(12)	(1)	(8)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:36

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMUR E
Lymph Node	(6)	(4)	(9)	(12)	(1)	(8)
Axillary, Sarcoma, Metastatic, Skin						
Inguinal, Sarcoma, Metastatic, Skin						
Lumbar, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Lumbar, Sarcoma Stromal, Metastatic, Uterus						
Lumbar, Sarcoma, Metastatic, Skin						
Renal, Leiomyosarcoma, Metastatic, Uterus			1 (11%)			
Renal, Lymphangioma				1 (8%)		
Renal, Sarcoma Stromal, Metastatic, Uterus						
Renal, Sarcoma, Metastatic, Skin						
Thoracic, Sarcoma Stromal, Metastatic, Uterus						
Lymph Node, Mandibular	(45)	(47)	(45)	(42)	(47)	(44)
Adenocarcinoma, Metastatic, Uncertain Primary Site				1 (2%)		
Mast Cell Tumor Malignant						
Lymph Node, Mesenteric	(47)	(45)	(42)	(39)	(43)	(42)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Leiomyosarcoma, Metastatic, Uterus			1 (2%)			
Mast Cell Tumor Malignant						
Sarcoma		1 (2%)				
Sarcoma Stromal, Metastatic, Uterus						
Sarcoma, Metastatic, Kidney						
Sarcoma, Metastatic, Skin						
Sarcoma, Metastatic, Uncertain Primary Site				1 (3%)		
Spleen	(48)	(45)	(47)	(46)	(47)	(46)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically



Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:37

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMUR E
Hemangioma						1 (2%)
Hemangiosarcoma			1 (2%)		4 (9%)	
Leiomyosarcoma, Metastatic, Uterus			1 (2%)			
Mast Cell Tumor Malignant						
Sarcoma Stromal, Metastatic, Uterus						
Sarcoma, Metastatic, Lymph Node		1 (2%)				
Sarcoma, Metastatic, Skin					1 (2%)	
Thymus	(40)	(37)	(32)	(38)	(41)	(40)
Adenocarcinoma, Metastatic, Mammary Gland						
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung					4 (11%)	
Leiomyosarcoma, Metastatic, Uterus			1 (3%)			
Sarcoma, Metastatic, Kidney						
Sarcoma, Metastatic, Skin					1 (3%)	
Sarcoma, Metastatic, Uncertain Primary Site					1 (3%)	
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(47)	(46)	(46)	(48)	(47)	(45)
Adenoacanthoma		1 (2%)	1 (2%)	11 (23%)		
Adenocarcinoma	4 (9%)	3 (7%)	3 (7%)	11 (23%)	4 (9%)	3 (7%)
Adenoma			2 (4%)	1 (2%)		
Basosquamous Tumor Malignant			1 (2%)			
Fibroadenoma					1 (2%)	
Lymphatic, Mast Cell Tumor Malignant						
Sarcoma, Metastatic, Skin					1 (2%)	
Skin	(48)	(48)	(46)	(48)	(47)	(47)
Basal Cell Carcinoma			1 (2%)	1 (2%)		

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

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\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:37

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMURE
Basosquamous Tumor Malignant			1 (2%)			
Fibroma						
Fibrous Histiocytoma		1 (2%)				
Hemangioma					1 (2%)	
Hemangiosarcoma				2 (4%)		
Osteosarcoma						
Papilloma		1 (2%)				
Sarcoma	4 (8%)	3 (6%)		6 (13%)	2 (4%)	1 (2%)
Squamous Cell Carcinoma, Metastatic, Intestine Large						
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(48)	(48)	(48)	(48)	(46)	(47)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Femur, Hemangioma				1 (2%)		
Femur, Hemangiosarcoma						
Femur, Sarcoma, Metastatic, Skin						
Humerus, Osteosarcoma						
Rib, Osteosarcoma						
Rib, Right, Osteosarcoma				1 (2%)		
Right, Osteosarcoma						1 (2%)
Sternum, Sarcoma				1 (2%)		
Sternum, Sarcoma, Metastatic, Skin				1 (2%)		
Vertebra, Osteosarcoma						
Skeletal Muscle	(48)	(48)	(48)	(48)	(47)	(47)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung				1 (2%)		

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:37

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMURE
Diaphragm, Adenocarcinoma, Metastatic, Mammary Gland						
Diaphragm, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Diaphragm, Sarcoma, Metastatic, Skin					1 (2%)	
Diaphragm, Teratoma Malignant, Metastatic, Ovary						
Hemangiosarcoma			1 (2%)			
Mast Cell Tumor Malignant						
Rhabdomyosarcoma		1 (2%)				
Sarcoma						
Sarcoma, Metastatic, Skin	1 (2%)					
Sarcoma, Metastatic, Uncertain Primary Site					1 (2%)	
<b>NERVOUS SYSTEM</b>						
Brain	(0)	(0)	(0)	(0)	(0)	(0)
Brain, Brain Stem	(0)	(0)	(0)	(0)	(0)	(0)
Brain, Cerebellum	(48)	(48)	(48)	(48)	(47)	(46)
Brain, Cerebrum	(48)	(48)	(48)	(48)	(47)	(47)
Carcinoma, Deep Invasion						
Meningioma Malignant						
Peripheral Nerve	(48)	(47)	(48)	(48)	(47)	(46)
Spinal Cord	(0)	(0)	(0)	(0)	(0)	(0)
Spinal Cord, Thoracic	(48)	(48)	(48)	(48)	(47)	(47)
<b>RESPIRATORY SYSTEM</b>						
Larynx	(48)	(46)	(46)	(45)	(47)	(46)
Lung	(48)	(48)	(48)	(47)	(47)	(47)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:37

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMUR E
Adenoacanthoma, Metastatic, Mammary Gland		1 (2%)		5 (11%)		
Adenocarcinoma, Metastatic, Mammary Gland						
Adenocarcinoma, Multiple, Metastatic, Mammary Gland					1 (2%)	
Alveolar/Bronchiolar Adenoma	4 (8%)	6 (13%)	13 (27%)	12 (26%)	5 (11%)	7 (15%)
Alveolar/Bronchiolar Adenoma, Multiple			4 (8%)	17 (36%)		3 (6%)
Alveolar/Bronchiolar Carcinoma	2 (4%)	4 (8%)	10 (21%)	6 (13%)		2 (4%)
Alveolar/Bronchiolar Carcinoma, Multiple			3 (6%)	13 (28%)		
Basal Cell Carcinoma, Metastatic, Skin			1 (2%)			
Basosquamous Tumor Malignant, Metastatic, Mammary Gland			1 (2%)			
Basosquamous Tumor Malignant, Metastatic, Zymbal'S Gland				1 (2%)		
Carcinoma, Metastatic, Harderian Gland				1 (2%)		
Carcinoma, Metastatic, Mammary Gland				1 (2%)		
Carcinoma, Metastatic, Zymbal'S Gland						1 (2%)
Granulosa Cell Tumor Malignant, Metastatic, Ovary				1 (2%)		
Hemangiosarcoma				1 (2%)		
Hepatocellular Carcinoma, Metastatic, Liver				1 (2%)		
Osteosarcoma, Metastatic, Bone						1 (2%)
Osteosarcoma, Metastatic, Skin						
Sarcoma Stromal, Metastatic, Uterus						
Sarcoma, Metastatic, Skin						
Sarcoma, Metastatic, Uncertain Primary Site						
Squamous Cell Carcinoma, Metastatic, Intestine Large						

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:37

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMUR E
Nose	(48)	(48)	(48)	(46)	(47)	(47)
Carcinoma, Metastatic, Harderian Gland						
Trachea	(48)	(47)	(47)	(46)	(47)	(47)
<b>SPECIAL SENSES SYSTEM</b>						
Ear	(0)	(0)	(0)	(0)	(0)	(0)
Squamous Cell Papilloma						
Eye	(48)	(47)	(46)	(48)	(47)	(45)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Harderian Gland	(48)	(48)	(48)	(48)	(47)	(47)
Adenoma	3 (6%)	10 (21%)	8 (17%)	20 (42%)	2 (4%)	3 (6%)
Bilateral, Adenoma				1 (2%)		
Bilateral, Carcinoma				4 (8%)		
Carcinoma		1 (2%)	11 (23%)	7 (15%)	1 (2%)	3 (6%)
Lacrimal Gland	(45)	(47)	(43)	(40)	(45)	(45)
Mast Cell Tumor Malignant						
Zymbal's Gland	(46)	(43)	(46)	(46)	(46)	(43)
Basosquamous Tumor Malignant				1 (2%)		
Carcinoma						1 (2%)
<b>URINARY SYSTEM</b>						
Kidney	(48)	(48)	(48)	(48)	(47)	(47)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						
Hemangiosarcoma						
Mast Cell Tumor Malignant						
Osteosarcoma, Metastatic, Bone						
Osteosarcoma, Metastatic, Skin						

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS  
ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:37

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMUR E
Perirenal Tiss, Hemangiosarcoma						
Sarcoma				1 (2%)		1 (2%)
Sarcoma, Metastatic, Skin				2 (4%)		
Urinary Bladder	(48)	(46)	(45)	(41)	(45)	(43)
Leiomyosarcoma, Metastatic, Uterus			1 (2%)			
SYSTEMIC LESIONS						
Multiple Organ	*(48)	*(48)	*(48)	*(48)	*(47)	*(47)
Histiocytic Sarcoma	1 (2%)	2 (4%)	3 (6%)	3 (6%)		2 (4%)
Leukemia						
Lymphoma Malignant	16 (33%)	6 (13%)	8 (17%)	15 (31%)	9 (19%)	10 (21%)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:37

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
<b>Disposition Summary</b>						
Animals Initially In Study	48	48	48	48	48	48
<b>Early Deaths</b>						
Drowned			4	2		
Moribund	11	7	2	1	3	8
Natural Death	16	25	5	8	13	26
<b>Survivors</b>						
Moribund		2	4	3	1	3
Natural Death	2	6	2	2	4	7
Terminal Sacrifice	19	8	31	32	27	4
Animals Examined Microscopically	48	48	48	48	48	48
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(47)	(47)	(47)	(48)	(47)	(46)
Sarcoma, Metastatic, Kidney		1 (2%)				
Gallbladder	(46)	(43)	(47)	(44)	(47)	(45)
Leiomyosarcoma, Metastatic, Uterus						
Sarcoma, Metastatic, Skin						
Intestine Large	(0)	(0)	(1)	(0)	(6)	(0)
Intestine Large, Cecum	(47)	(41)	(47)	(44)	(42)	(42)
Mast Cell Tumor Malignant				1 (2%)		
Intestine Large, Colon	(47)	(42)	(47)	(45)	(41)	(42)
Sarcoma, Metastatic, Skin						1 (2%)
Sarcoma, Metastatic, Uncertain Primary Site						
Sarcoma, Metastatic, Uterus						
Intestine Large, Rectum	(47)	(46)	(48)	(47)	(39)	(44)
Leiomyosarcoma, Metastatic, Uterus						

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:37

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Sarcoma, Metastatic, Skin				1 (2%)		
Sarcoma, Metastatic, Uterus		1 (2%)				
Squamous Cell Carcinoma		1 (2%)				
Intestine Small	(0)	(0)	(0)	(0)	(6)	(0)
Polyp Adenomatous						
Intestine Small, Duodenum	(47)	(39)	(47)	(44)	(38)	(40)
Adenoma			1 (2%)			
Intestine Small, Ileum	(47)	(40)	(47)	(44)	(41)	(40)
Intestine Small, Jejunum	(47)	(39)	(47)	(44)	(40)	(40)
Hemangioma						1 (3%)
Leiomyosarcoma, Metastatic, Uterus						
Sarcoma Stromal, Metastatic, Uterus	1 (2%)					
Sarcoma, Metastatic, Skin	1 (2%)					
Liver	(47)	(46)	(48)	(47)	(48)	(48)
Hemangiosarcoma		7 (15%)				6 (13%)
Hepatocellular Adenoma	6 (13%)	9 (20%)	3 (6%)	4 (9%)	5 (10%)	2 (4%)
Hepatocellular Adenoma, Multiple	9 (19%)	14 (30%)		2 (4%)	11 (23%)	14 (29%)
Hepatocellular Carcinoma	3 (6%)	1 (2%)		1 (2%)		
Hepatocellular Carcinoma, Multiple						1 (2%)
Ito Cell Tumor Malignant						
Leiomyosarcoma, Metastatic, Uterus						
Mast Cell Tumor Malignant				1 (2%)		
Osteosarcoma, Metastatic, Bone	1 (2%)					
Sarcoma Stromal, Metastatic, Uterus	1 (2%)				1 (2%)	1 (2%)
Sarcoma, Metastatic, Skin	1 (2%)			1 (2%)		1 (2%)
Mesentery	(6)	(6)	(3)	(3)	(5)	(4)
Hemangiosarcoma		1 (17%)				2 (50%)
Sarcoma						

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically



Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:37

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Sarcoma, Metastatic, Kidney		1 (17%)				
Sarcoma, Metastatic, Skin						
Pancreas	(46)	(44)	(47)	(45)	(48)	(44)
Leiomyosarcoma, Metastatic, Uterus						
Sarcoma						
Sarcoma Stromal, Metastatic, Uterus	1 (2%)				1 (2%)	1 (2%)
Sarcoma, Metastatic, Kidney		1 (2%)				
Sarcoma, Metastatic, Skin	1 (2%)			1 (2%)		1 (2%)
Sarcoma, Metastatic, Uncertain Primary Site						
Teratoma Malignant, Metastatic, Ovary				1 (2%)		
Salivary Glands	(46)	(48)	(48)	(47)	(48)	(47)
Mast Cell Tumor Malignant				1 (2%)		
Stomach	(0)	(0)	(0)	(0)	(7)	(0)
Stomach, Forestomach	(47)	(46)	(48)	(47)	(41)	(45)
Mast Cell Tumor Malignant						1 (2%)
Sarcoma Stromal, Metastatic, Uterus	1 (2%)					
Sarcoma, Metastatic, Kidney		1 (2%)				
Squamous Cell Carcinoma		1 (2%)				
Squamous Cell Papilloma			2 (4%)	3 (6%)	2 (5%)	
Stomach, Glandular	(47)	(45)	(48)	(46)	(40)	(45)
Leiomyosarcoma, Metastatic, Uterus						
Mast Cell Tumor Malignant				1 (2%)		
Sarcoma, Metastatic, Skin						1 (2%)
Tongue	(48)	(48)	(47)	(48)	(48)	(46)
<b>CARDIOVASCULAR SYSTEM</b>						
Blood Vessel	(48)	(48)	(47)	(48)	(46)	(45)
Heart	(48)	(48)	(47)	(48)	(48)	(47)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:38

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		1 (2%)			1 (2%)	1 (2%)
Hemangioma					2 (4%)	
Hemangiosarcoma		3 (6%)				6 (13%)
Squamous Cell Carcinoma, Metastatic, Intestine Large		1 (2%)				
<b>ENDOCRINE SYSTEM</b>						
Adrenal Gland	(0)	(1)	(0)	(0)	(2)	(0)
Bilateral, Subcapsular, Adenoma		1 (100%)				
Adrenal Gland, Cortex	(46)	(44)	(46)	(46)	(45)	(46)
Adenocarcinoma, Metastatic, Mammary Gland						
Adenoma					1 (2%)	
Bilateral, Adenoma						
Hemangiosarcoma						
Osteosarcoma, Metastatic, Bone	1 (2%)					
Sarcoma Stromal, Metastatic, Uterus	1 (2%)					
Sarcoma, Metastatic, Kidney		1 (2%)				
Sarcoma, Metastatic, Skin		1 (2%)				1 (2%)
Sarcoma, Metastatic, Uncertain Primary Site						
Subcapsular, Adenoma					2 (4%)	3 (7%)
Subcapsular, Carcinoma		1 (2%)		1 (2%)		
Adrenal Gland, Medulla	(45)	(41)	(44)	(44)	(38)	(46)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung					1 (3%)	
Pheochromocytoma Benign						
Pheochromocytoma Malignant	1 (2%)			1 (2%)		
Islets, Pancreatic	(46)	(44)	(47)	(45)	(48)	(44)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

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First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Adenoma	1 (2%)	1 (2%)		1 (2%)	3 (6%)	
Sarcoma, Metastatic, Skin				1 (2%)		
Parathyroid Gland	(37)	(31)	(35)	(41)	(41)	(36)
Pituitary Gland	(41)	(38)	(40)	(41)	(40)	(38)
Meningioma Malignant, Metastatic, Brain	1 (2%)					
Pars Distalis, Adenoma	3 (7%)	1 (3%)	6 (15%)	6 (15%)	5 (13%)	1 (3%)
Pars Distalis, Carcinoma			1 (3%)			
Thyroid Gland	(45)	(46)	(45)	(48)	(45)	(46)
Follicular Cel, Adenoma	1 (2%)		2 (4%)		1 (2%)	1 (2%)
Follicular Cel, Carcinoma						
<b>GENERAL BODY SYSTEM</b>						
Tissue NOS	(1)	(0)	(0)	(1)	(0)	(2)
Abdominal, Sarcoma						
Sarcoma						
Thoracic, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung				1 (100%)		
<b>GENITAL SYSTEM</b>						
Clitoral Gland	(34)	(40)	(38)	(41)	(41)	(35)
Ovary	(47)	(48)	(46)	(47)	(46)	(45)
Adenoma, Tubular		1 (2%)			1 (2%)	2 (4%)
Cystadenoma		2 (4%)	2 (4%)	1 (2%)	3 (7%)	2 (4%)
Granulosa Cell Tumor Benign	3 (6%)	3 (6%)			5 (11%)	3 (7%)
Granulosa Cell Tumor Malignant					1 (2%)	
Hemangioma		1 (2%)			1 (2%)	
Hemangiosarcoma	1 (2%)	2 (4%)				
Luteoma						
Sarcoma Stromal, Metastatic, Uterus						1 (2%)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:38

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Sarcoma, Metastatic, Skin				1 (2%)		1 (2%)
Teratoma Malignant				1 (2%)		
Thecoma Benign		1 (2%)				
Uterus	(48)	(48)	(48)	(48)	(47)	(45)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung					1 (2%)	
Endometrium, Adenoma				1 (2%)		
Hemangioma	1 (2%)	3 (6%)		1 (2%)	2 (4%)	1 (2%)
Hemangiosarcoma	1 (2%)	1 (2%)		2 (4%)	1 (2%)	1 (2%)
Leiomyoma					2 (4%)	
Leiomyosarcoma		1 (2%)				
Polyp Stromal	1 (2%)		2 (4%)	1 (2%)		
Sarcoma		1 (2%)				
Sarcoma Stromal	1 (2%)	1 (2%)			1 (2%)	2 (4%)
Sarcoma, Metastatic, Skin		1 (2%)				1 (2%)
Vagina	(47)	(47)	(48)	(48)	(46)	(44)
Basosquamous Tumor Benign						
Hemangioma		1 (2%)				
Leiomyosarcoma, Metastatic, Uterus						
Sarcoma Stromal, Metastatic, Uterus	1 (2%)				1 (2%)	
Sarcoma, Metastatic, Skin				1 (2%)		
Sarcoma, Metastatic, Uterus		1 (2%)				
Squamous Cell Carcinoma					1 (2%)	
Squamous Cell Papilloma						
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(48)	(48)	(48)	(46)	(48)	(47)
Hemangiosarcoma		1 (2%)				
Lymph Node	(11)	(11)	(3)	(4)	(16)	(7)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:38

First Dose M/F: NA / NA

Lab: NCTR

<b>B6C3F1/NCTR Mouse FEMALE</b>	<b>2.5%ETH/30PPMUR E</b>	<b>2.5%ETH/90PPMUR E</b>	<b>5.0%ETH/0PPM URE</b>	<b>5.0%ETH/10PPMUR E</b>	<b>5.0%ETH/30PPMUR E</b>	<b>5.0%ETH/90PPMUR E</b>
Lymph Node	(11)	(11)	(3)	(4)	(16)	(7)
Axillary, Sarcoma, Metastatic, Skin			1 (33%)	1 (25%)		
Inguinal, Sarcoma, Metastatic, Skin		1 (9%)				
Lumbar, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung					1 (6%)	
Lumbar, Sarcoma Stromal, Metastatic, Uterus	1 (9%)					
Lumbar, Sarcoma, Metastatic, Skin		1 (9%)		1 (25%)		
Renal, Leiomyosarcoma, Metastatic, Uterus						
Renal, Lymphangioma						
Renal, Sarcoma Stromal, Metastatic, Uterus	1 (9%)				1 (6%)	1 (14%)
Renal, Sarcoma, Metastatic, Skin				1 (25%)		
Thoracic, Sarcoma Stromal, Metastatic, Uterus	1 (9%)					
Lymph Node, Mandibular	(43)	(46)	(48)	(46)	(38)	(47)
Adenocarcinoma, Metastatic, Uncertain Primary Site						
Mast Cell Tumor Malignant				1 (2%)		1 (2%)
Lymph Node, Mesenteric	(42)	(38)	(45)	(42)	(43)	(38)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						1 (3%)
Leiomyosarcoma, Metastatic, Uterus						
Mast Cell Tumor Malignant				1 (2%)		
Sarcoma						
Sarcoma Stromal, Metastatic, Uterus	1 (2%)				1 (2%)	1 (3%)
Sarcoma, Metastatic, Kidney		1 (3%)				
Sarcoma, Metastatic, Skin						1 (3%)
Sarcoma, Metastatic, Uncertain Primary Site						
Spleen	(46)	(46)	(48)	(47)	(48)	(45)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Date Report Requested: 10/18/2014

Test Type: CHRONIC

Test Compound: Urethane + ethanol (combination)

Time Report Requested: 00:14:38

Route: DOSED WATER

CAS Number: URETHCOMB

First Dose M/F: NA / NA

Species/Strain: Mouse/B6C3F1/NCTR

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Hemangioma					1 (2%)	
Hemangiosarcoma		3 (7%)		1 (2%)		1 (2%)
Leiomyosarcoma, Metastatic, Uterus						
Mast Cell Tumor Malignant				1 (2%)		
Sarcoma Stromal, Metastatic, Uterus	1 (2%)				1 (2%)	
Sarcoma, Metastatic, Lymph Node						
Sarcoma, Metastatic, Skin				2 (4%)		1 (2%)
Thymus	(34)	(36)	(39)	(38)	(43)	(39)
Adenocarcinoma, Metastatic, Mammary Gland						1 (3%)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung	1 (3%)	2 (6%)			1 (2%)	3 (8%)
Leiomyosarcoma, Metastatic, Uterus						
Sarcoma, Metastatic, Kidney		1 (3%)				
Sarcoma, Metastatic, Skin				1 (3%)		1 (3%)
Sarcoma, Metastatic, Uncertain Primary Site						
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(48)	(47)	(47)	(48)	(48)	(45)
Adenoacanthoma	2 (4%)	3 (6%)			1 (2%)	9 (20%)
Adenocarcinoma	11 (23%)	14 (30%)	3 (6%)	4 (8%)	6 (13%)	15 (33%)
Adenoma						
Basosquamous Tumor Malignant						
Fibroadenoma						
Lymphatic, Mast Cell Tumor Malignant						1 (2%)
Sarcoma, Metastatic, Skin						
Skin	(48)	(47)	(48)	(48)	(48)	(47)
Basal Cell Carcinoma						

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:38

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Basosquamous Tumor Malignant						
Fibroma		1 (2%)				
Fibrous Histiocytoma						
Hemangioma	1 (2%)					
Hemangiosarcoma		2 (4%)				
Osteosarcoma	1 (2%)		1 (2%)			
Papilloma						
Sarcoma	6 (13%)	5 (11%)	3 (6%)	7 (15%)	4 (8%)	7 (15%)
Squamous Cell Carcinoma, Metastatic, Intestine Large		1 (2%)				
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(48)	(48)	(48)	(48)	(48)	(47)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						1 (2%)
Femur, Hemangioma						
Femur, Hemangiosarcoma		1 (2%)				
Femur, Sarcoma, Metastatic, Skin	1 (2%)					
Humerus, Osteosarcoma	1 (2%)					
Rib, Osteosarcoma	1 (2%)					
Rib, Right, Osteosarcoma						
Right, Osteosarcoma						
Sternum, Sarcoma						
Sternum, Sarcoma, Metastatic, Skin						
Vertebra, Osteosarcoma	1 (2%)					
Skeletal Muscle	(48)	(48)	(48)	(48)	(48)	(47)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung		1 (2%)				

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Date Report Requested: 10/18/2014

Test Type: CHRONIC

Test Compound: Urethane + ethanol (combination)

Time Report Requested: 00:14:38

Route: DOSED WATER

CAS Number: URETHCOMB

First Dose M/F: NA / NA

Species/Strain: Mouse/B6C3F1/NCTR

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Diaphragm, Adenocarcinoma, Metastatic, Mammary Gland						1 (2%)
Diaphragm, Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						1 (2%)
Diaphragm, Sarcoma, Metastatic, Skin						
Diaphragm, Teratoma Malignant, Metastatic, Ovary				1 (2%)		
Hemangiosarcoma		1 (2%)				
Mast Cell Tumor Malignant				1 (2%)		
Rhabdomyosarcoma						
Sarcoma						2 (4%)
Sarcoma, Metastatic, Skin		1 (2%)		1 (2%)		1 (2%)
Sarcoma, Metastatic, Uncertain Primary Site						
<b>NERVOUS SYSTEM</b>						
Brain	(0)	(0)	(0)	(0)	(4)	(0)
Brain, Brain Stem	(0)	(0)	(0)	(0)	(1)	(0)
Brain, Cerebellum	(47)	(48)	(48)	(48)	(40)	(47)
Brain, Cerebrum	(47)	(48)	(48)	(48)	(44)	(47)
Carcinoma, Deep Invasion			1 (2%)			
Meningioma Malignant	1 (2%)					
Peripheral Nerve	(48)	(48)	(48)	(48)	(48)	(47)
Spinal Cord	(0)	(0)	(0)	(0)	(8)	(0)
Spinal Cord, Thoracic	(47)	(48)	(48)	(48)	(40)	(47)
<b>RESPIRATORY SYSTEM</b>						
Larynx	(47)	(46)	(45)	(47)	(47)	(47)
Lung	(48)	(48)	(48)	(48)	(48)	(48)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically



Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:38

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Adenoacanthoma, Metastatic, Mammary Gland						1 (2%)
Adenocarcinoma, Metastatic, Mammary Gland	1 (2%)			1 (2%)		1 (2%)
Adenocarcinoma, Multiple, Metastatic, Mammary Gland						
Alveolar/Bronchiolar Adenoma	12 (25%)	10 (21%)	4 (8%)	8 (17%)	15 (31%)	8 (17%)
Alveolar/Bronchiolar Adenoma, Multiple	4 (8%)	18 (38%)	1 (2%)	2 (4%)	3 (6%)	22 (46%)
Alveolar/Bronchiolar Carcinoma	4 (8%)	11 (23%)	1 (2%)	5 (10%)	7 (15%)	8 (17%)
Alveolar/Bronchiolar Carcinoma, Multiple	2 (4%)	12 (25%)		2 (4%)	2 (4%)	15 (31%)
Basal Cell Carcinoma, Metastatic, Skin						
Basosquamous Tumor Malignant, Metastatic, Mammary Gland						
Basosquamous Tumor Malignant, Metastatic, Zymbal'S Gland						
Carcinoma, Metastatic, Harderian Gland						
Carcinoma, Metastatic, Mammary Gland	1 (2%)					1 (2%)
Carcinoma, Metastatic, Zymbal'S Gland						
Granulosa Cell Tumor Malignant, Metastatic, Ovary					1 (2%)	
Hemangiosarcoma						
Hepatocellular Carcinoma, Metastatic, Liver	1 (2%)				1 (2%)	
Osteosarcoma, Metastatic, Bone	1 (2%)					
Osteosarcoma, Metastatic, Skin			1 (2%)			
Sarcoma Stromal, Metastatic, Uterus		1 (2%)				
Sarcoma, Metastatic, Skin	1 (2%)	3 (6%)	1 (2%)	4 (8%)		3 (6%)
Sarcoma, Metastatic, Uncertain Primary Site						1 (2%)
Squamous Cell Carcinoma, Metastatic, Intestine Large		1 (2%)				

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:38

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Nose	(48)	(48)	(47)	(48)	(48)	(47)
Carcinoma, Metastatic, Harderian Gland						1 (2%)
Trachea	(46)	(47)	(47)	(48)	(47)	(45)
<b>SPECIAL SENSES SYSTEM</b>						
Ear	(0)	(0)	(0)	(0)	(1)	(0)
Squamous Cell Papilloma					1 (100%)	
Eye	(48)	(46)	(48)	(48)	(47)	(45)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						1 (2%)
Harderian Gland	(46)	(47)	(48)	(48)	(46)	(46)
Adenoma	9 (20%)	16 (34%)	4 (8%)	7 (15%)	6 (13%)	14 (30%)
Bilateral, Adenoma		3 (6%)				6 (13%)
Bilateral, Carcinoma		4 (9%)		1 (2%)	1 (2%)	
Carcinoma	6 (13%)	12 (26%)	1 (2%)	10 (21%)	6 (13%)	10 (22%)
Lacrimal Gland	(44)	(43)	(45)	(45)	(45)	(43)
Mast Cell Tumor Malignant				1 (2%)		
Zymbal's Gland	(41)	(44)	(48)	(46)	(43)	(40)
Basosquamous Tumor Malignant Carcinoma						
<b>URINARY SYSTEM</b>						
Kidney	(48)	(48)	(48)	(48)	(48)	(47)
Alveolar/Bronchiolar Carcinoma, Metastatic, Lung						1 (2%)
Hemangiosarcoma		2 (4%)				1 (2%)
Mast Cell Tumor Malignant				1 (2%)		1 (2%)
Osteosarcoma, Metastatic, Bone	1 (2%)					
Osteosarcoma, Metastatic, Skin			1 (2%)			

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS  
ABRIDGED) (a)**

Test Compound: Urethane + ethanol (combination)

CAS Number: URETHCOMB

Date Report Requested: 10/18/2014

Time Report Requested: 00:14:39

First Dose M/F: NA / NA

Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
Perirenal Tiss, Hemangiosarcoma		1 (2%)				
Sarcoma		1 (2%)				
Sarcoma, Metastatic, Skin	1 (2%)			2 (4%)		
Urinary Bladder	(47)	(45)	(46)	(46)	(47)	(45)
Leiomyosarcoma, Metastatic, Uterus						
SYSTEMIC LESIONS						
Multiple Organ	*(48)	*(48)	*(48)	*(48)	*(48)	*(48)
Histiocytic Sarcoma	3 (6%)	2 (4%)	4 (8%)		3 (6%)	2 (4%)
Leukemia				1 (2%)		
Lymphoma Malignant	11 (23%)	6 (13%)	5 (10%)	6 (13%)	15 (31%)	10 (21%)

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS  
 ABRIDGED) (a)**  
 Test Compound: Urethane + ethanol (combination)  
 CAS Number: URETHCOMB

Date Report Requested: 10/18/2014  
 Time Report Requested: 00:14:39  
 First Dose M/F: NA / NA  
 Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	0% ETH/ 0PPM URE	0% ETH/ 10PPMURE	0% ETH/ 30PPMURE	0% ETH/ 90PPMURE	2.5%ETH/0PPM URE	2.5%ETH/10PPMUR E
<b>Tumor Summary for FEMALE</b>						
Total Animals with Primary Neoplasms (b)	37	35	45	47	29	33
Total Primary Neoplasms	55	64	118	195	47	59
Total Animals with Benign Neoplasms	22	26	38	42	21	21
Total Benign Neoplasms	27	39	65	88	28	30
Total Animals with Malignant Neoplasms	26	20	37	46	14	22
Total Malignant Neoplasms	28	25	53	107	19	29
Total Animals with Metastatic Neoplasms	1	2	4	20	1	2
Total Metastatic Neoplasms	2	2	17	35	2	3
Total Animals with Malignant Neoplasms Uncertain Primary Site				2		
Total Animals with Neoplasms Uncertain - Benign or Malignant						
Total Uncertain Neoplasms						

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically

Experiment Number: 00602-05  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: Mouse/B6C3F1/NCTR

**P05: INCIDENCE RATES OF NEOPLASMS BY ANATOMIC SITE (SYSTEMIC LESIONS  
 ABRIDGED) (a)**  
 Test Compound: Urethane + ethanol (combination)  
 CAS Number: URETHCOMB

Date Report Requested: 10/18/2014  
 Time Report Requested: 00:14:39  
 First Dose M/F: NA / NA  
 Lab: NCTR

B6C3F1/NCTR Mouse FEMALE	2.5%ETH/30PPMUR E	2.5%ETH/90PPMUR E	5.0%ETH/0PPM URE	5.0%ETH/10PPMUR E	5.0%ETH/30PPMUR E	5.0%ETH/90PPMUR E
<b>Tumor Summary for FEMALE</b>						
Total Animals with Primary Neoplasms (b)	45	48	32	43	47	47
Total Primary Neoplasms	108	188	47	90	121	182
Total Animals with Benign Neoplasms	31	39	22	26	37	41
Total Benign Neoplasms	51	86	27	37	72	80
Total Animals with Malignant Neoplasms	38	45	17	35	37	46
Total Malignant Neoplasms	57	102	20	53	49	102
Total Animals with Metastatic Neoplasms	10	10	3	8	4	12
Total Metastatic Neoplasms	26	25	4	23	13	35
Total Animals with Malignant Neoplasms Uncertain Primary Site						1
Total Animals with Neoplasms Uncertain - Benign or Malignant						
Total Uncertain Neoplasms						

\*\* END OF REPORT \*\*

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

b - Primary tumors: all tumors except metastatic tumors

\* Number of animals with any tissue examined microscopically