

**Experiment Number:** 20314 - 03  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** RATS/F 344/NCTR

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

Glycidamide  
**CAS Number:** 5694-00-8

**Date Report Requested:** 12/17/2014  
**Time Report Requested:** 07:40:57  
**First Dose M/F:** 05/30/05 / 05/30/05  
**Lab:** NCTR

**NTP Study Number:** C20314  
**Lock Date:** 11/01/2011  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.2\_002  
**PWG Approval Date:** NONE

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FISCHER 344 RATS-NCTR RATS MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
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**Disposition Summary**

<b>Animals Initially In Study</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>
<b>Early Deaths</b>					
<b>Moribund Sacrifice</b>	<b>36</b>	<b>26</b>	<b>24</b>	<b>13</b>	<b>16</b>
<b>Natural Death</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>10</b>	<b>4</b>
<b>Survivors</b>					
<b>Moribund Sacrifice</b>	<b>7</b>	<b>10</b>	<b>4</b>	<b>5</b>	<b>7</b>
<b>Natural Death</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	
<b>Terminal Sacrifice</b>	<b>2</b>	<b>7</b>	<b>15</b>	<b>18</b>	<b>21</b>
<b>Other</b>		<b>1</b>			
<b>Animals Examined Microscopically</b>	<b>48</b>	<b>47</b>	<b>48</b>	<b>48</b>	<b>48</b>

**ALIMENTARY SYSTEM**

Esophagus	(48)	(47)	(48)	(47)	(48)
Inflammation, Suppurative		1 (2%)			
Ulcer		1 (2%)			
Intestine Large, Cecum	(46)	(42)	(43)	(37)	(45)
Hyperplasia, Lymphoid		1 (2%)			
Lumen, Dilatation		1 (2%)			
Intestine Large, Colon	(45)	(43)	(44)	(38)	(46)
Hyperplasia, Lymphoid					1 (2%)
Intestine Large, Rectum	(45)	(44)	(44)	(37)	(46)
Edema					1 (2%)
Intestine Small, Duodenum	(46)	(43)	(43)	(37)	(46)
Inflammation, Chronic Active				1 (3%)	
Necrosis				1 (3%)	
Epithelium, Hyperplasia		1 (2%)		1 (3%)	
Intestine Small, Ileum	(45)	(43)	(43)	(37)	(45)
Hyperplasia, Lymphoid	2 (4%)				
Epithelium, Hyperplasia		1 (2%)			
Intestine Small, Jejunum	(45)	(43)	(43)	(36)	(45)
Bacterium				1 (3%)	
Hyperplasia, Lymphoid	1 (2%)				
Inflammation, Chronic Active				1 (3%)	

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FISCHER 344 RATS-NCTR RATS MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Necrosis				1 (3%)	
Liver	(47)	(47)	(48)	(47)	(47)
Angiectasis	1 (2%)				1 (2%)
Basophilic Focus	2 (4%)	7 (15%)	6 (13%)	1 (2%)	6 (13%)
Basophilic Focus, Multiple	2 (4%)	1 (2%)	5 (10%)	8 (17%)	10 (21%)
Clear Cell Focus	1 (2%)			2 (4%)	2 (4%)
Congestion	1 (2%)	1 (2%)	1 (2%)		
Deformity	3 (6%)	4 (9%)	3 (6%)	4 (9%)	3 (6%)
Degeneration, Cystic	21 (45%)	13 (28%)	21 (44%)	20 (43%)	16 (34%)
Eosinophilic Focus	3 (6%)	5 (11%)	9 (19%)	6 (13%)	10 (21%)
Eosinophilic Focus, Multiple	2 (4%)	2 (4%)	5 (10%)	5 (11%)	7 (15%)
Granuloma					1 (2%)
Hemorrhage			1 (2%)		
Hepatodiaphragmatic Nodule	1 (2%)	1 (2%)		1 (2%)	
Hypertrophy				1 (2%)	
Infiltration Cellular, Lymphocyte	1 (2%)	1 (2%)			
Infiltration Cellular, Polymorphonuclear				1 (2%)	
Inflammation, Chronic Active	2 (4%)	4 (9%)	7 (15%)	5 (11%)	7 (15%)
Mineralization		1 (2%)			
Mixed Cell Focus	2 (4%)	2 (4%)	2 (4%)	2 (4%)	1 (2%)
Necrosis	5 (11%)	7 (15%)	2 (4%)	5 (11%)	1 (2%)
Pigmentation	3 (6%)	5 (11%)	6 (13%)	5 (11%)	3 (6%)
Thrombosis	2 (4%)			2 (4%)	1 (2%)
Vacuolization Cytoplasmic	12 (26%)	12 (26%)	14 (29%)	15 (32%)	17 (36%)
Bile Duct, Hyperplasia	36 (77%)	38 (81%)	39 (81%)	38 (81%)	39 (83%)
Biliary Tract, Fibrosis		1 (2%)	1 (2%)	1 (2%)	
Hepatocyte, Degeneration	8 (17%)	10 (21%)	6 (13%)	6 (13%)	2 (4%)
Hepatocyte, Hyperplasia			2 (4%)	1 (2%)	1 (2%)
Oval Cell, Hyperplasia	1 (2%)		1 (2%)		
Mesentery	(4)	(9)	(6)	(8)	(3)
Hemorrhage			1 (17%)		
Pigmentation			1 (17%)		
Fat, Necrosis	1 (25%)	7 (78%)	6 (100%)	6 (75%)	2 (67%)
Oral Mucosa	(7)	(6)	(2)	(3)	(4)
Foreign Body			1 (50%)		
Keratin Cyst	1 (14%)	1 (17%)			

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FISCHER 344 RATS-NCTR RATS MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Epithelium, Hyperplasia	2 (29%)	3 (50%)	1 (50%)	2 (67%)	2 (50%)
Epithelium, Hyperplasia, Basal Cell	1 (14%)				
Pancreas	(48)	(46)	(47)	(44)	(48)
Angiectasis	1 (2%)				
Inflammation, Chronic Active					1 (2%)
Polyarteritis				1 (2%)	
Vacuolization Cytoplasmic			1 (2%)		
Acinar Cell, Hyperplasia		1 (2%)	1 (2%)		
Acinus, Degeneration	23 (48%)	25 (54%)	19 (40%)	30 (68%)	25 (52%)
Salivary Glands	(47)	(46)	(48)	(44)	(48)
Stomach, Forestomach	(47)	(47)	(46)	(46)	(46)
Edema					1 (2%)
Inflammation, Chronic Active		3 (6%)	2 (4%)	3 (7%)	
Ulcer		5 (11%)	2 (4%)	3 (7%)	
Epithelium, Hyperplasia	2 (4%)	9 (19%)	3 (7%)	6 (13%)	4 (9%)
Stomach, Glandular	(46)	(44)	(44)	(38)	(46)
Edema					1 (2%)
Inflammation, Suppurative			1 (2%)		
Inflammation, Chronic Active		1 (2%)	3 (7%)		2 (4%)
Necrosis	4 (9%)	2 (5%)	2 (5%)	3 (8%)	5 (11%)
Pigmentation	1 (2%)	1 (2%)	1 (2%)	2 (5%)	1 (2%)
Ulcer	1 (2%)		2 (5%)	1 (3%)	1 (2%)
Epithelium, Degeneration		1 (2%)	1 (2%)		
Epithelium, Hyperplasia	1 (2%)				2 (4%)
Tongue	(6)	(2)	(1)	(1)	(0)
Inflammation, Suppurative				1 (100%)	
Epithelium, Hyperplasia		1 (50%)			

**CARDIOVASCULAR SYSTEM**

Blood Vessel	(48)	(47)	(48)	(48)	(48)
Heart	(48)	(47)	(48)	(48)	(48)
Cardiomyopathy	34 (71%)	31 (66%)	36 (75%)	37 (77%)	37 (77%)
Congestion	1 (2%)	1 (2%)			
Metaplasia, Osseous	2 (4%)			1 (2%)	

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FISCHER 344 RATS-NCTR RATS MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Mineralization			1 (2%)	2 (4%)	1 (2%)
Pigmentation					1 (2%)
Thrombosis	9 (19%)	8 (17%)	14 (29%)	14 (29%)	10 (21%)
Atrium, Dilatation	2 (4%)		1 (2%)	2 (4%)	2 (4%)
Ventricle, Dilatation	1 (2%)	2 (4%)	2 (4%)		
<b>ENDOCRINE SYSTEM</b>					
Adrenal Cortex	(47)	(47)	(48)	(47)	(47)
Accessory Adrenal Cortical Nodule		3 (6%)	1 (2%)		
Atrophy	1 (2%)				
Degeneration, Cystic	1 (2%)			1 (2%)	
Hyperplasia		1 (2%)			3 (6%)
Hypertrophy	3 (6%)	1 (2%)	2 (4%)		1 (2%)
Metaplasia, Osseous		1 (2%)	1 (2%)		
Thrombosis	1 (2%)				
Vacuolization Cytoplasmic	34 (72%)	28 (60%)	31 (65%)	27 (57%)	26 (55%)
Adrenal Medulla	(48)	(47)	(48)	(47)	(46)
Hyperplasia	6 (13%)	5 (11%)	7 (15%)	11 (23%)	13 (28%)
Necrosis				1 (2%)	
Islets, Pancreatic	(48)	(45)	(48)	(45)	(48)
Fibrosis				1 (2%)	
Hyperplasia	3 (6%)	2 (4%)	2 (4%)	4 (9%)	
Parathyroid Gland	(48)	(45)	(47)	(47)	(48)
Hyperplasia	7 (15%)	3 (7%)	6 (13%)	10 (21%)	5 (10%)
Pituitary Gland	(47)	(47)	(48)	(46)	(47)
Hemorrhage		1 (2%)			
Inflammation, Suppurative		1 (2%)			
Pars Distalis, Angiectasis				1 (2%)	1 (2%)
Pars Distalis, Cyst	3 (6%)	1 (2%)	3 (6%)		2 (4%)
Pars Distalis, Hyperplasia	8 (17%)	10 (21%)	6 (13%)	10 (22%)	10 (21%)
Pars Intermedia, Cyst				1 (2%)	
Pars Nervosa, Rathke's Cleft, Degeneration				2 (4%)	
Thyroid Gland	(46)	(47)	(48)	(42)	(47)
Cyst		3 (6%)	1 (2%)	1 (2%)	1 (2%)

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C-cell, Hyperplasia	14 (30%)	18 (38%)	18 (38%)	16 (38%)	14 (30%)
Follicular Cell, Hyperplasia	4 (9%)		3 (6%)	2 (5%)	
<b>GENERAL BODY SYSTEM</b>					
Tissue NOS	(1)	(1)	(1)	(0)	(2)
<b>GENITAL SYSTEM</b>					
Coagulating Gland	(1)	(0)	(0)	(0)	(0)
Inflammation, Suppurative	1 (100%)				
Necrosis	1 (100%)				
Epithelium, Hyperplasia	1 (100%)				
Epididymis	(47)	(47)	(48)	(45)	(48)
Exfoliated Germ Cell	4 (9%)	3 (6%)	2 (4%)	1 (2%)	
Hypospermia	24 (51%)	31 (66%)	31 (65%)	29 (64%)	36 (75%)
Epithelium, Degeneration	18 (38%)	28 (60%)	27 (56%)	25 (56%)	31 (65%)
Preputial Gland	(48)	(47)	(48)	(48)	(48)
Cyst	1 (2%)		1 (2%)		
Fibrosis	2 (4%)				
Hemorrhage					1 (2%)
Hyperkeratosis	2 (4%)	1 (2%)			
Infiltration Cellular, Plasma Cell				1 (2%)	
Inflammation, Suppurative	18 (38%)	24 (51%)	25 (52%)	27 (56%)	21 (44%)
Inflammation, Chronic Active	10 (21%)	8 (17%)	9 (19%)	7 (15%)	14 (29%)
Necrosis	1 (2%)	1 (2%)			1 (2%)
Acinus, Degeneration	22 (46%)	26 (55%)	25 (52%)	25 (52%)	24 (50%)
Duct, Ectasia	17 (35%)	23 (49%)	24 (50%)	24 (50%)	25 (52%)
Epithelium, Hyperplasia	2 (4%)		2 (4%)		
Prostate	(48)	(47)	(48)	(47)	(47)
Cyst Multilocular	2 (4%)				1 (2%)
Infiltration Cellular, Lymphocyte			1 (2%)		
Inflammation, Suppurative	22 (46%)	21 (45%)	29 (60%)	24 (51%)	23 (49%)
Inflammation, Chronic Active	7 (15%)	8 (17%)	8 (17%)	6 (13%)	11 (23%)
Necrosis	1 (2%)			1 (2%)	

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Acinus, Degeneration		1 (2%)			1 (2%)
Epithelium, Hyperplasia	3 (6%)	8 (17%)	6 (13%)	7 (15%)	8 (17%)
Seminal Vesicle	(47)	(46)	(46)	(38)	(47)
Atrophy	18 (38%)	27 (59%)	25 (54%)	17 (45%)	27 (57%)
Inflammation, Suppurative	1 (2%)				
Necrosis	1 (2%)				
Epithelium, Hyperplasia	2 (4%)				
Lumen, Dilatation		1 (2%)	3 (7%)	1 (3%)	2 (4%)
Testes	(48)	(47)	(48)	(47)	(48)
Cyst					1 (2%)
Polyarteritis			1 (2%)		2 (4%)
Interstitial Cell, Hyperplasia	11 (23%)	6 (13%)	8 (17%)	3 (6%)	7 (15%)
Seminiferous Tubule, Degeneration	41 (85%)	38 (81%)	36 (75%)	35 (74%)	38 (79%)

**HEMATOPOIETIC SYSTEM**

Bone Marrow	(46)	(46)	(45)	(40)	(47)
Atrophy		1 (2%)	1 (2%)	4 (10%)	
Hyperplasia	10 (22%)	12 (26%)	10 (22%)	4 (10%)	6 (13%)
Lymph Node	(23)	(23)	(19)	(19)	(17)
Inguinal, Hyperplasia, Lymphoid		1 (4%)			
Inguinal, Infiltration Cellular, Plasma Cell		1 (4%)			
Lumbar, Hyperplasia, Lymphoid	1 (4%)	1 (4%)			
Lumbar, Infiltration Cellular, Plasma Cell	1 (4%)		1 (5%)		
Lumbar, Sinus, Dilatation	2 (9%)	1 (4%)	2 (11%)	2 (11%)	
Mediastinal, Hemorrhage	2 (9%)	2 (9%)		1 (5%)	
Mediastinal, Hyperplasia, Lymphoid	1 (4%)				
Mediastinal, Pigmentation			1 (5%)		
Mediastinal, Sinus, Dilatation	3 (13%)	2 (9%)	3 (16%)	2 (11%)	1 (6%)
Pancreatic, Hemorrhage	1 (4%)				
Pancreatic, Hyperplasia, Lymphoid	1 (4%)	1 (4%)	1 (5%)	1 (5%)	1 (6%)
Pancreatic, Infiltration Cellular, Plasma Cell					1 (6%)
Pancreatic, Sinus, Dilatation	2 (9%)	2 (9%)	1 (5%)	1 (5%)	
Renal, Hemorrhage				1 (5%)	
Renal, Hyperplasia, Lymphoid	2 (9%)				1 (6%)

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Renal, Infiltration Cellular, Histiocyte					1 (6%)
Renal, Infiltration Cellular, Plasma Cell			3 (16%)		
Renal, Pigmentation	1 (4%)				1 (6%)
Renal, Sinus, Dilatation	3 (13%)	2 (9%)	5 (26%)	1 (5%)	5 (29%)
Sinus, Dilatation				1 (5%)	
Lymph Node, Mandibular	(47)	(47)	(48)	(45)	(48)
Hemorrhage		1 (2%)	1 (2%)	1 (2%)	1 (2%)
Hyperplasia, Lymphoid	11 (23%)	7 (15%)	6 (13%)	6 (13%)	7 (15%)
Infiltration Cellular, Plasma Cell	19 (40%)	20 (43%)	21 (44%)	21 (47%)	27 (56%)
Infiltration Cellular, Polymorphonuclear				1 (2%)	
Sinus, Dilatation	6 (13%)	6 (13%)	9 (19%)	10 (22%)	15 (31%)
Lymph Node, Mesenteric	(47)	(46)	(46)	(46)	(48)
Angiectasis			1 (2%)		
Hemorrhage	3 (6%)	1 (2%)	1 (2%)	1 (2%)	
Hyperplasia, Lymphoid	10 (21%)	12 (26%)	11 (24%)	9 (20%)	15 (31%)
Infiltration Cellular, Histiocyte	1 (2%)		1 (2%)		
Infiltration Cellular, Plasma Cell	1 (2%)	1 (2%)	2 (4%)	6 (13%)	8 (17%)
Metaplasia, Osseous			1 (2%)		
Sinus, Dilatation	5 (11%)	5 (11%)	2 (4%)	2 (4%)	3 (6%)
Spleen	(47)	(47)	(48)	(47)	(48)
Accessory Spleen	3 (6%)	1 (2%)		3 (6%)	1 (2%)
Congestion	2 (4%)	2 (4%)	3 (6%)	3 (6%)	3 (6%)
Depletion Lymphoid	1 (2%)	1 (2%)	1 (2%)		
Developmental Malformation					1 (2%)
Fibrosis	11 (23%)	13 (28%)	13 (27%)	10 (21%)	6 (13%)
Hematopoietic Cell Proliferation	7 (15%)	8 (17%)	6 (13%)	4 (9%)	4 (8%)
Hemorrhage	1 (2%)	1 (2%)	1 (2%)	1 (2%)	
Hyperplasia, Lymphoid	1 (2%)		2 (4%)	2 (4%)	3 (6%)
Hyperplasia, Stromal	1 (2%)		1 (2%)		
Necrosis	1 (2%)	1 (2%)	1 (2%)	3 (6%)	1 (2%)
Pigmentation	9 (19%)	13 (28%)	15 (31%)	17 (36%)	19 (40%)
Red Pulp, Hyperplasia					1 (2%)
Thymus	(43)	(42)	(43)	(38)	(43)
Atrophy	40 (93%)	34 (81%)	41 (95%)	37 (97%)	40 (93%)
Hemorrhage				1 (3%)	

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**INTEGUMENTARY SYSTEM**

Mammary Gland	(42)	(44)	(45)	(42)	(45)
Fibrosis	1 (2%)	1 (2%)			
Galactocele	6 (14%)	4 (9%)	5 (11%)	4 (10%)	4 (9%)
Lactation	7 (17%)	6 (14%)	17 (38%)	8 (19%)	12 (27%)
Alveolus, Hyperplasia	1 (2%)	1 (2%)	4 (9%)	1 (2%)	2 (4%)
Duct, Dilatation					1 (2%)
Skin	(48)	(47)	(48)	(48)	(48)
Cyst Epithelial Inclusion	4 (8%)	5 (11%)	3 (6%)	1 (2%)	3 (6%)
Fibrosis	2 (4%)	2 (4%)		1 (2%)	2 (4%)
Hyperkeratosis		1 (2%)		2 (4%)	1 (2%)
Infiltration Cellular, Plasma Cell					1 (2%)
Inflammation, Suppurative		1 (2%)			
Inflammation, Chronic		1 (2%)			
Inflammation, Chronic Active	1 (2%)		1 (2%)	1 (2%)	1 (2%)
Necrosis	1 (2%)				1 (2%)
Ulcer					1 (2%)
Epithelium, Hyperplasia	1 (2%)	1 (2%)		2 (4%)	
Sebaceous Gland, Hyperplasia	1 (2%)				

**MUSCULOSKELETAL SYSTEM**

Bone	(1)	(3)	(2)	(0)	(1)
Cranium, Deformity		1 (33%)	1 (50%)		
Vertebra, Fracture					1 (100%)
Bone, Femur	(48)	(47)	(48)	(48)	(48)
Fibrous Osteodystrophy	1 (2%)	1 (2%)	2 (4%)	1 (2%)	
Osteopetrosis		1 (2%)		2 (4%)	
Skeletal Muscle	(48)	(47)	(48)	(48)	(48)

**NERVOUS SYSTEM**

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 Species/Strain: RATS/F 344/NCTR

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**  
 Glycidamide  
 CAS Number: 5694-00-8

Date Report Requested: 12/17/2014  
 Time Report Requested: 07:40:57  
 First Dose M/F: 05/30/05 / 05/30/05  
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Brain, Brain Stem	(48)	(47)	(48)	(48)	(48)
Compression	9 (19%)	8 (17%)	13 (27%)	10 (21%)	15 (31%)
Gliosis	3 (6%)			1 (2%)	
Hemorrhage	1 (2%)	1 (2%)	1 (2%)	2 (4%)	1 (2%)
Necrosis				1 (2%)	
Brain, Cerebellum	(48)	(47)	(48)	(48)	(48)
Hemorrhage	1 (2%)	1 (2%)	1 (2%)		
Infiltration Cellular, Polymorphonuclear		1 (2%)			
Ventricle, Dilatation		1 (2%)	3 (6%)	1 (2%)	2 (4%)
Brain, Cerebrum	(48)	(47)	(48)	(48)	(48)
Compression		1 (2%)			
Gliosis	2 (4%)				
Hemorrhage	1 (2%)		1 (2%)		
Mineralization		1 (2%)	2 (4%)		
Meninges, Hemorrhage					1 (2%)
Ventricle, Dilatation		3 (6%)	4 (8%)	2 (4%)	6 (13%)
Peripheral Nerve, Sciatic	(48)	(47)	(48)	(48)	(48)
Axon, Degeneration	28 (58%)	28 (60%)	26 (54%)	22 (46%)	31 (65%)
Spinal Cord, Cervical	(48)	(47)	(48)	(46)	(47)
Cyst			1 (2%)		
Gliosis	1 (2%)				
Hemorrhage		1 (2%)	1 (2%)		2 (4%)
Mineralization	1 (2%)				
Axon, Degeneration	27 (56%)	28 (60%)	23 (48%)	19 (41%)	25 (53%)
Spinal Cord, Lumbar	(48)	(47)	(48)	(46)	(47)
Gliosis					1 (2%)
Mineralization	2 (4%)				
Axon, Degeneration	5 (10%)	2 (4%)	4 (8%)	7 (15%)	5 (11%)
Nerve, Degeneration	26 (54%)	32 (68%)	29 (60%)	26 (57%)	36 (77%)
Nerve, Gliosis	1 (2%)			2 (4%)	2 (4%)
Spinal Cord, Thoracic	(48)	(47)	(48)	(46)	(47)
Hemorrhage		1 (2%)			
Mineralization	1 (2%)				
Axon, Degeneration	27 (56%)	30 (64%)	25 (52%)	22 (48%)	23 (49%)
Nerve, Degeneration	5 (10%)	4 (9%)	3 (6%)	8 (17%)	5 (11%)

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

Experiment Number: 20314 - 03  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344/NCTR

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**  
 Glycidamide  
 CAS Number: 5694-00-8

Date Report Requested: 12/17/2014  
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 First Dose M/F: 05/30/05 / 05/30/05  
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
<b>RESPIRATORY SYSTEM</b>					
Lung	(47)	(47)	(48)	(47)	(48)
Congestion					1 (2%)
Foreign Body	1 (2%)				
Hemorrhage	2 (4%)	1 (2%)			2 (4%)
Infiltration Cellular, Histiocyte	15 (32%)	5 (11%)	8 (17%)	4 (9%)	12 (25%)
Infiltration Cellular, Lymphocyte	1 (2%)				
Inflammation, Suppurative			1 (2%)		
Inflammation, Granulomatous	1 (2%)	1 (2%)			
Inflammation, Chronic		1 (2%)			
Mineralization			1 (2%)		
Pigmentation	2 (4%)		3 (6%)	2 (4%)	2 (4%)
Alveolar Epithelium, Hyperplasia	5 (11%)	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Bronchus, Inflammation, Suppurative		1 (2%)			
Endothelium, Hyperplasia	1 (2%)				
Nose	(48)	(45)	(47)	(45)	(48)
Inflammation, Suppurative	2 (4%)	4 (9%)	1 (2%)	5 (11%)	3 (6%)
Inflammation, Chronic Active	1 (2%)			2 (4%)	1 (2%)
Goblet Cell, Hyperplasia	2 (4%)	1 (2%)		1 (2%)	
Nasopharyngeal Duct, Hyperkeratosis		1 (2%)			
Nasopharyngeal Duct, Inflammation, Suppurative		1 (2%)			
Trachea	(47)	(47)	(48)	(43)	(48)
<b>SPECIAL SENSES SYSTEM</b>					
Ear	(0)	(1)	(1)	(0)	(0)
Eye	(45)	(44)	(43)	(38)	(45)
Cataract		1 (2%)		1 (3%)	1 (2%)
Phthisis Bulbi				1 (3%)	1 (2%)
Bilateral, Cataract					1 (2%)
Bilateral, Retina, Degeneration	5 (11%)	7 (16%)	5 (12%)	3 (8%)	8 (18%)
Cornea, Inflammation, Suppurative		1 (2%)			

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Experiment Number: 20314 - 03  
 Test Type: CHRONIC  
 Route: DOSED WATER  
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**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**  
 Glycidamide  
 CAS Number: 5694-00-8

Date Report Requested: 12/17/2014  
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FISCHER 344 RATS-NCTR RATS MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Cornea, Necrosis		1 (2%)			
Cornea, Ulcer		1 (2%)			
Retina, Degeneration	4 (9%)	2 (5%)	2 (5%)	5 (13%)	4 (9%)
Sclera, Metaplasia, Osseous			2 (5%)	4 (11%)	2 (4%)
Harderian Gland	(48)	(46)	(48)	(47)	(47)
Infiltration Cellular, Lymphocyte				3 (6%)	1 (2%)
Inflammation, Chronic					1 (2%)
Inflammation, Chronic Active		1 (2%)	1 (2%)		
Necrosis	1 (2%)				
Acinus, Degeneration		1 (2%)	1 (2%)		
Epithelium, Hyperplasia	1 (2%)				1 (2%)
Zymbal's Gland	(3)	(2)	(3)	(0)	(0)
Inflammation, Suppurative		1 (50%)			

URINARY SYSTEM

Kidney	(47)	(47)	(47)	(44)	(46)
Cyst	1 (2%)	1 (2%)			1 (2%)
Hyaline Droplet	1 (2%)	3 (6%)			
Hydronephrosis	2 (4%)			1 (2%)	1 (2%)
Necrosis					1 (2%)
Nephropathy	44 (94%)	45 (96%)	46 (98%)	40 (91%)	46 (100%)
Pigmentation	2 (4%)	3 (6%)	1 (2%)		
Transitional Epithelium, Hyperplasia		2 (4%)	1 (2%)		1 (2%)
Urethra	(1)	(0)	(0)	(0)	(0)
Urinary Bladder	(47)	(47)	(48)	(43)	(48)
Hemorrhage		1 (2%)			
Inflammation, Chronic					1 (2%)
Lumen, Dilatation	5 (11%)	5 (11%)	2 (4%)	5 (12%)	5 (10%)
Transitional Epithelium, Hyperplasia	2 (4%)	1 (2%)	1 (2%)		

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

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

Experiment Number: 20314 - 03  
 Test Type: CHRONIC  
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 Species/Strain: RATS/F 344/NCTR

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**  
 Glycidamide  
 CAS Number: 5694-00-8

Date Report Requested: 12/17/2014  
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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
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**Disposition Summary**

<b>Animals Initially In Study</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>
<b>Early Deaths</b>					
<b>Moribund Sacrifice</b>	<b>40</b>	<b>20</b>	<b>11</b>	<b>15</b>	<b>7</b>
<b>Natural Death</b>	<b>3</b>	<b>3</b>	<b>4</b>		<b>2</b>
<b>Survivors</b>					
<b>Moribund Sacrifice</b>	<b>3</b>	<b>8</b>	<b>5</b>	<b>6</b>	<b>3</b>
<b>Natural Death</b>			<b>1</b>	<b>1</b>	<b>1</b>
<b>Terminal Sacrifice</b>	<b>2</b>	<b>17</b>	<b>27</b>	<b>26</b>	<b>35</b>
<b>Animals Examined Microscopically</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>	<b>48</b>

**ALIMENTARY SYSTEM**

Esophagus	(48)	(48)	(48)	(48)	(48)
Lumen, Dilatation		1 (2%)			
Intestine Large, Cecum	(45)	(45)	(44)	(48)	(46)
Ulcer					1 (2%)
Lumen, Dilatation	1 (2%)			1 (2%)	
Intestine Large, Colon	(45)	(45)	(44)	(48)	(46)
Goblet Cell, Hyperplasia					1 (2%)
Intestine Large, Rectum	(45)	(45)	(45)	(48)	(46)
Intestine Small, Duodenum	(45)	(45)	(45)	(48)	(46)
Intestine Small, Ileum	(45)	(45)	(44)	(48)	(46)
Infiltration Cellular, Lymphocyte					1 (2%)
Pigmentation					1 (2%)
Intestine Small, Jejunum	(44)	(44)	(45)	(48)	(46)
Infiltration Cellular, Lymphocyte	1 (2%)				
Liver	(48)	(48)	(48)	(48)	(48)
Angiectasis	1 (2%)		1 (2%)		
Basophilic Focus	4 (8%)	2 (4%)	2 (4%)	2 (4%)	
Basophilic Focus, Multiple	32 (67%)	35 (73%)	36 (75%)	38 (79%)	41 (85%)
Clear Cell Focus		1 (2%)			2 (4%)
Congestion				1 (2%)	1 (2%)
Deformity	7 (15%)	5 (10%)	4 (8%)	4 (8%)	7 (15%)
Degeneration, Cystic		2 (4%)	3 (6%)	2 (4%)	3 (6%)

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 Test Type: CHRONIC  
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FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Eosinophilic Focus	4 (8%)	4 (8%)	5 (10%)	8 (17%)	5 (10%)
Eosinophilic Focus, Multiple		4 (8%)		3 (6%)	2 (4%)
Granuloma		1 (2%)		3 (6%)	3 (6%)
Hematopoietic Cell Proliferation	2 (4%)	1 (2%)	1 (2%)		1 (2%)
Hemorrhage	1 (2%)				
Hepatodiaphragmatic Nodule	1 (2%)	2 (4%)			2 (4%)
Hypertrophy			1 (2%)		
Infiltration Cellular, Lymphocyte		2 (4%)		1 (2%)	
Inflammation, Chronic Active	8 (17%)	13 (27%)	18 (38%)	14 (29%)	19 (40%)
Mitotic Alteration				1 (2%)	
Mixed Cell Focus	2 (4%)	3 (6%)	6 (13%)	7 (15%)	10 (21%)
Mixed Cell Focus, Multiple	3 (6%)	5 (10%)	6 (13%)	8 (17%)	8 (17%)
Necrosis	3 (6%)		1 (2%)	8 (17%)	2 (4%)
Pigmentation	1 (2%)		1 (2%)	4 (8%)	2 (4%)
Thrombosis	1 (2%)	2 (4%)			
Vacuolization Cytoplasmic	7 (15%)	12 (25%)	18 (38%)	11 (23%)	15 (31%)
Bile Duct, Hyperplasia	15 (31%)	15 (31%)	25 (52%)	19 (40%)	16 (33%)
Hepatocyte, Degeneration	4 (8%)	3 (6%)	3 (6%)	6 (13%)	4 (8%)
Hepatocyte, Hyperplasia	1 (2%)	1 (2%)	1 (2%)	1 (2%)	
Mesentery	(5)	(9)	(1)	(4)	(4)
Cyst		1 (11%)			
Infiltration Cellular, Lymphocyte		1 (11%)			
Fat, Necrosis	5 (100%)	7 (78%)	1 (100%)	4 (100%)	4 (100%)
Oral Mucosa	(9)	(4)	(5)	(2)	(1)
Epithelium, Hyperplasia	3 (33%)	3 (75%)	3 (60%)	1 (50%)	
Pancreas	(48)	(48)	(48)	(48)	(48)
Cyst	1 (2%)				
Necrosis		2 (4%)			
Acinus, Degeneration	13 (27%)	19 (40%)	17 (35%)	18 (38%)	21 (44%)
Salivary Glands	(48)	(48)	(48)	(48)	(48)
Infiltration Cellular, Lymphocyte					1 (2%)
Stomach, Forestomach	(46)	(47)	(48)	(48)	(48)
Edema	1 (2%)				
Fibrosis					1 (2%)
Inflammation, Chronic Active	2 (4%)	1 (2%)	1 (2%)	3 (6%)	1 (2%)
Necrosis	1 (2%)		1 (2%)		

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

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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Ulcer		2 (4%)	1 (2%)	2 (4%)	
Epithelium, Hyperplasia	6 (13%)	2 (4%)	2 (4%)	3 (6%)	3 (6%)
Stomach, Glandular	(46)	(46)	(45)	(48)	(47)
Necrosis	1 (2%)			1 (2%)	1 (2%)
Pigmentation					1 (2%)
Epithelium, Degeneration	1 (2%)				
Tongue	(4)	(3)	(1)	(1)	(0)
Inflammation, Suppurative		1 (33%)			
Keratin Cyst		1 (33%)			
Epithelium, Hyperplasia	1 (25%)	1 (33%)			
<b>CARDIOVASCULAR SYSTEM</b>					
Blood Vessel	(48)	(48)	(48)	(48)	(48)
Heart	(48)	(48)	(48)	(48)	(48)
Cardiomyopathy	31 (65%)	33 (69%)	38 (79%)	39 (81%)	40 (83%)
Thrombosis	1 (2%)	1 (2%)	2 (4%)	3 (6%)	
Endocardium, Hyperplasia				1 (2%)	
Ventricle, Dilatation	1 (2%)			1 (2%)	
<b>ENDOCRINE SYSTEM</b>					
Adrenal Cortex	(48)	(48)	(48)	(48)	(48)
Accessory Adrenal Cortical Nodule	1 (2%)	3 (6%)			
Angiectasis		2 (4%)	2 (4%)	3 (6%)	2 (4%)
Congestion					1 (2%)
Cyst			1 (2%)		
Degeneration, Cystic	1 (2%)	1 (2%)	1 (2%)	1 (2%)	3 (6%)
Hemorrhage					1 (2%)
Hyperplasia	2 (4%)	2 (4%)		1 (2%)	1 (2%)
Hypertrophy			4 (8%)		4 (8%)
Pigmentation			1 (2%)		
Vacuolization Cytoplasmic	22 (46%)	17 (35%)	12 (25%)	13 (27%)	12 (25%)
Adrenal Medulla	(48)	(47)	(47)	(48)	(47)
Hyperplasia		2 (4%)	4 (9%)	1 (2%)	3 (6%)

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FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Necrosis	1 (2%)				
Islets, Pancreatic	(47)	(48)	(48)	(48)	(48)
Hyperplasia		2 (4%)		1 (2%)	
Parathyroid Gland	(46)	(47)	(48)	(45)	(48)
Hyperplasia	3 (7%)		2 (4%)		2 (4%)
Pituitary Gland	(48)	(46)	(47)	(48)	(47)
Pars Distalis, Angiectasis	1 (2%)				
Pars Distalis, Cyst	5 (10%)	1 (2%)	1 (2%)	3 (6%)	3 (6%)
Pars Distalis, Hyperplasia	20 (42%)	14 (30%)	12 (26%)	7 (15%)	11 (23%)
Pars Intermedia, Cyst		1 (2%)			
Pars Intermedia, Hyperplasia	1 (2%)	1 (2%)			
Pars Intermedia, Rathke's Cleft, Degeneration		1 (2%)			
Thyroid Gland	(47)	(46)	(46)	(48)	(48)
Cyst		1 (2%)			
Infiltration Cellular, Polymorphonuclear					1 (2%)
C-cell, Hyperplasia	19 (40%)	16 (35%)	24 (52%)	27 (56%)	31 (65%)
Follicular Cell, Hyperplasia	1 (2%)	1 (2%)	1 (2%)	1 (2%)	1 (2%)
<b>GENERAL BODY SYSTEM</b>					
Tissue NOS	(0)	(0)	(0)	(1)	(0)
<b>GENITAL SYSTEM</b>					
Clitoral Gland	(47)	(48)	(48)	(48)	(48)
Fibrosis		1 (2%)			
Hyperkeratosis	1 (2%)				
Infiltration Cellular, Lymphocyte	1 (2%)	1 (2%)	1 (2%)		1 (2%)
Inflammation, Suppurative	13 (28%)	20 (42%)	17 (35%)	13 (27%)	16 (33%)
Inflammation, Chronic				1 (2%)	
Inflammation, Chronic Active	4 (9%)		8 (17%)	5 (10%)	5 (10%)
Necrosis				2 (4%)	
Acinus, Degeneration	10 (21%)	16 (33%)	15 (31%)	21 (44%)	16 (33%)
Duct, Ectasia	19 (40%)	17 (35%)	25 (52%)	21 (44%)	25 (52%)
Epithelium, Hyperplasia	4 (9%)	1 (2%)	2 (4%)	2 (4%)	4 (8%)

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FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Ovary	(48)	(48)	(48)	(48)	(48)
Atrophy	47 (98%)	46 (96%)	44 (92%)	46 (96%)	44 (92%)
Cyst	1 (2%)	2 (4%)	2 (4%)	2 (4%)	3 (6%)
Bilateral, Cyst		1 (2%)			
Uterus	(48)	(48)	(48)	(48)	(48)
Angiectasis			1 (2%)		
Cyst	4 (8%)	5 (10%)	5 (10%)	4 (8%)	2 (4%)
Decidual Reaction	1 (2%)				
Hemorrhage	1 (2%)		1 (2%)		1 (2%)
Cervix, Fibrosis	1 (2%)	3 (6%)		1 (2%)	
Endometrium, Hyperplasia, Cystic	23 (48%)	14 (29%)	14 (29%)	17 (35%)	11 (23%)
Lumen, Dilatation	3 (6%)	3 (6%)	6 (13%)	3 (6%)	6 (13%)
Vagina	(1)	(5)	(4)	(3)	(3)
Fibrosis		1 (20%)			
Inflammation, Suppurative				1 (33%)	
Prolapse	1 (100%)		1 (25%)		
Lumen, Dilatation		4 (80%)	3 (75%)	3 (100%)	3 (100%)
Mucocyte, Hyperplasia					2 (67%)

**HEMATOPOIETIC SYSTEM**

Bone Marrow	(47)	(47)	(46)	(48)	(48)
Atrophy	1 (2%)	1 (2%)			
Hyperplasia	14 (30%)	8 (17%)	7 (15%)	6 (13%)	2 (4%)
Lymph Node	(18)	(12)	(15)	(9)	(5)
Lumbar, Hyperplasia, Lymphoid	1 (6%)	1 (8%)	1 (7%)	1 (11%)	
Lumbar, Infiltration Cellular, Plasma Cell	1 (6%)	1 (8%)	1 (7%)		
Lumbar, Sinus, Dilatation	2 (11%)	1 (8%)			
Mediastinal, Fibrosis				1 (11%)	
Mediastinal, Hemorrhage			1 (7%)	1 (11%)	
Mediastinal, Hyperplasia, Lymphoid	1 (6%)		1 (7%)		
Mediastinal, Pigmentation			1 (7%)	1 (11%)	
Mediastinal, Sinus, Dilatation				1 (11%)	
Pancreatic, Hyperplasia, Lymphoid	1 (6%)	1 (8%)			1 (20%)
Pancreatic, Infiltration Cellular, Histiocyte		1 (8%)	1 (7%)		

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Experiment Number: 20314 - 03  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344/NCTR

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FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Pancreatic, Infiltration Cellular, Plasma Cell	1 (6%)				
Pancreatic, Sinus, Dilatation			2 (13%)		
Renal, Hemorrhage					1 (20%)
Renal, Hyperplasia, Lymphoid	2 (11%)				
Renal, Infiltration Cellular, Histiocyte	1 (6%)	1 (8%)	1 (7%)		
Renal, Infiltration Cellular, Plasma Cell	1 (6%)				
Renal, Sinus, Dilatation			2 (13%)		1 (20%)
Sinus, Thoracic, Dilatation		1 (8%)			
Thoracic, Hemorrhage		1 (8%)			
Thoracic, Infiltration Cellular, Histiocyte		1 (8%)			
Lymph Node, Mandibular	(47)	(47)	(47)	(48)	(48)
Hemorrhage	2 (4%)		1 (2%)	1 (2%)	
Hyperplasia, Lymphoid	9 (19%)	4 (9%)	7 (15%)	4 (8%)	6 (13%)
Infiltration Cellular, Plasma Cell	16 (34%)	20 (43%)	18 (38%)	16 (33%)	22 (46%)
Sinus, Dilatation	6 (13%)	5 (11%)	3 (6%)	5 (10%)	3 (6%)
Lymph Node, Mesenteric	(48)	(48)	(47)	(48)	(47)
Erythrophagocytosis				1 (2%)	
Hemorrhage	2 (4%)	4 (8%)		2 (4%)	1 (2%)
Hyperplasia, Lymphoid	10 (21%)	5 (10%)	6 (13%)	6 (13%)	10 (21%)
Infiltration Cellular, Histiocyte	1 (2%)				
Infiltration Cellular, Mast Cell		1 (2%)	1 (2%)		
Infiltration Cellular, Plasma Cell	6 (13%)	4 (8%)	6 (13%)	4 (8%)	2 (4%)
Sinus, Dilatation	1 (2%)			2 (4%)	2 (4%)
Spleen	(48)	(48)	(48)	(48)	(48)
Accessory Spleen		1 (2%)		1 (2%)	
Congestion			1 (2%)		
Depletion Lymphoid	1 (2%)				
Fibrosis	5 (10%)	5 (10%)	3 (6%)	3 (6%)	1 (2%)
Hematopoietic Cell Proliferation	11 (23%)	16 (33%)	9 (19%)	15 (31%)	14 (29%)
Hemorrhage		2 (4%)	1 (2%)		1 (2%)
Hyperplasia, Lymphoid		2 (4%)		3 (6%)	1 (2%)
Hyperplasia, Stromal			1 (2%)		
Necrosis	2 (4%)	1 (2%)	1 (2%)		1 (2%)
Pigmentation	14 (29%)	21 (44%)	20 (42%)	34 (71%)	36 (75%)
Thymus	(44)	(45)	(45)	(47)	(45)
Atrophy	40 (91%)	40 (89%)	41 (91%)	44 (94%)	43 (96%)

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

Experiment Number: 20314 - 03  
 Test Type: CHRONIC  
 Route: DOSED WATER  
 Species/Strain: RATS/F 344/NCTR

**P03: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE(a)**  
 Glycidamide  
 CAS Number: 5694-00-8

Date Report Requested: 12/17/2014  
 Time Report Requested: 07:40:57  
 First Dose M/F: 05/30/05 / 05/30/05  
 Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Cyst	1 (2%)				
Cyst Multilocular			1 (2%)		
<b>INTEGUMENTARY SYSTEM</b>					
Mammary Gland	(48)	(48)	(48)	(48)	(48)
Abscess				1 (2%)	
Galactocele	3 (6%)	9 (19%)	12 (25%)	8 (17%)	7 (15%)
Inflammation, Chronic Active				1 (2%)	
Lactation	2 (4%)	2 (4%)	3 (6%)	10 (21%)	11 (23%)
Alveolus, Hyperplasia	1 (2%)	1 (2%)	2 (4%)	6 (13%)	10 (21%)
Skin	(48)	(48)	(48)	(48)	(48)
Abscess				1 (2%)	
Cyst Epithelial Inclusion	2 (4%)		2 (4%)		1 (2%)
Hemorrhage		1 (2%)			
Infiltration Cellular, Plasma Cell				1 (2%)	
Inflammation, Suppurative	2 (4%)	3 (6%)		3 (6%)	3 (6%)
Inflammation, Chronic Active		2 (4%)		1 (2%)	
Ulcer	1 (2%)	4 (8%)	1 (2%)	2 (4%)	3 (6%)
Epithelium, Hyperplasia	1 (2%)	2 (4%)		2 (4%)	3 (6%)
<b>MUSCULOSKELETAL SYSTEM</b>					
Bone	(0)	(0)	(1)	(1)	(0)
Bone, Femur	(48)	(48)	(48)	(48)	(48)
Fibrous Osteodystrophy				3 (6%)	
Osteopetrosis		3 (6%)			
Skeletal Muscle	(48)	(48)	(48)	(48)	(48)
<b>NERVOUS SYSTEM</b>					
Brain, Brain Stem	(48)	(48)	(47)	(48)	(48)
Compression	11 (23%)	6 (13%)	12 (26%)	10 (21%)	10 (21%)
Hemorrhage			3 (6%)	1 (2%)	2 (4%)

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Experiment Number: 20314 - 03  
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FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Brain, Cerebellum	(48)	(48)	(47)	(48)	(48)
Gliosis	1 (2%)	2 (4%)	1 (2%)		
Hemorrhage	1 (2%)	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Ventricle, Dilatation					1 (2%)
Brain, Cerebrum	(48)	(48)	(48)	(48)	(48)
Cyst		1 (2%)			
Gliosis	3 (6%)	2 (4%)	3 (6%)		
Hemorrhage	1 (2%)	1 (2%)	3 (6%)	1 (2%)	1 (2%)
Necrosis	1 (2%)				
Ventricle, Dilatation			2 (4%)	2 (4%)	4 (8%)
Ventricle, Hemorrhage			1 (2%)		
Peripheral Nerve, Sciatic	(48)	(48)	(48)	(48)	(48)
Axon, Degeneration	20 (42%)	32 (67%)	32 (67%)	24 (50%)	27 (56%)
Spinal Cord, Cervical	(48)	(48)	(48)	(48)	(48)
Gliosis		1 (2%)			
Hemorrhage					1 (2%)
Inflammation, Chronic Active					1 (2%)
Axon, Degeneration	14 (29%)	14 (29%)	25 (52%)	19 (40%)	32 (67%)
Nerve, Degeneration		1 (2%)	3 (6%)	3 (6%)	2 (4%)
Spinal Cord, Lumbar	(48)	(48)	(47)	(48)	(48)
Gliosis	1 (2%)		2 (4%)		
Axon, Degeneration	9 (19%)	6 (13%)	5 (11%)	6 (13%)	5 (10%)
Meninges, Hyperplasia		1 (2%)			
Meninges, Infiltration Cellular, Histiocyte			1 (2%)		
Nerve, Degeneration	23 (48%)	30 (63%)	35 (74%)	35 (73%)	35 (73%)
Nerve, Gliosis					1 (2%)
Nerve, Hyperplasia				1 (2%)	
Neuron, Degeneration	1 (2%)				
Spinal Cord, Thoracic	(48)	(48)	(47)	(48)	(48)
Hemorrhage			1 (2%)		
Mineralization				1 (2%)	
Axon, Degeneration	18 (38%)	17 (35%)	18 (38%)	26 (54%)	29 (60%)
Meninges, Hyperplasia		1 (2%)	1 (2%)		
Meninges, Infiltration Cellular, Histiocyte		1 (2%)			
Nerve, Degeneration	2 (4%)	8 (17%)	8 (17%)	7 (15%)	8 (17%)

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Experiment Number: 20314 - 03  
 Test Type: CHRONIC  
 Route: DOSED WATER  
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 Glycidamide  
 CAS Number: 5694-00-8

Date Report Requested: 12/17/2014  
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 Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
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RESPIRATORY SYSTEM

Lung	(48)	(48)	(48)	(48)	(48)
Congestion	2 (4%)				
Fibrosis				1 (2%)	
Hemorrhage					1 (2%)
Infiltration Cellular, Histiocyte	9 (19%)	20 (42%)	24 (50%)	25 (52%)	24 (50%)
Inflammation, Chronic Active			1 (2%)		
Necrosis	1 (2%)				
Pigmentation				1 (2%)	
Polyarteritis	1 (2%)				
Alveolar Epithelium, Hyperplasia	4 (8%)	1 (2%)	3 (6%)	1 (2%)	3 (6%)
Nose	(47)	(48)	(48)	(48)	(48)
Foreign Body		1 (2%)			
Hyaline Droplet	2 (4%)	5 (10%)	2 (4%)	6 (13%)	5 (10%)
Inflammation, Suppurative	1 (2%)	4 (8%)	2 (4%)	1 (2%)	1 (2%)
Inflammation, Chronic Active	1 (2%)	1 (2%)			2 (4%)
Goblet Cell, Hyperplasia	2 (4%)	3 (6%)	2 (4%)	1 (2%)	1 (2%)
Trachea	(48)	(47)	(47)	(48)	(48)
Inflammation, Suppurative					1 (2%)
Necrosis					1 (2%)
Ulcer					1 (2%)

SPECIAL SENSES SYSTEM

Eye	(45)	(45)	(45)	(47)	(46)
Cataract	2 (4%)	1 (2%)			
Inflammation, Suppurative					1 (2%)
Bilateral, Cataract			1 (2%)		
Bilateral, Retina, Degeneration	2 (4%)	2 (4%)	3 (7%)	4 (9%)	5 (11%)
Retina, Degeneration	4 (9%)	6 (13%)	6 (13%)	7 (15%)	7 (15%)
Harderian Gland	(47)	(47)	(46)	(48)	(48)
Infiltration Cellular, Lymphocyte	8 (17%)	2 (4%)	1 (2%)	5 (10%)	8 (17%)
Inflammation, Chronic					1 (2%)

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Experiment Number: 20314 - 03  
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FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Inflammation, Chronic Active Pigmentation Acinus, Degeneration Epithelium, Hyperplasia Zymbal's Gland	(2)	1 (2%)   1 (2%) (0)	   1 (2%) (0)	1 (2%) 1 (2%)   (0)	    (1)
<b>URINARY SYSTEM</b>					
Kidney Cyst Hyaline Droplet Infarct Mineralization Nephropathy Pigmentation Urinary Bladder Infiltration Cellular, Histiocyte Lumen, Dilatation	(48)  2 (4%)  30 (63%) 25 (52%) 3 (6%) (47) 1 (2%) 1 (2%)	(47) 1 (2%) 1 (2%) 1 (2%) 36 (77%) 32 (68%) 1 (2%) (47)	(48)  2 (4%)  29 (60%) 38 (79%)  (48)  2 (4%)	(48)  2 (4%)  33 (69%) 39 (81%)  (48)	(48)  1 (2%)  34 (71%) 43 (90%)  (48)

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

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