

**Experiment Number:** 20314 - 03

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

**Date Report Requested:** 12/17/2014

**Test Type:** CHRONIC

Glycidamide

**Time Report Requested:** 07:40:57

**Route:** DOSED WATER

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

**First Dose M/F:** 05/30/05 / 05/30/05

**Species/Strain:** RATS/F 344/NCTR

**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

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

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

**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)
Intestine Large, Cecum	(46)	(42)	(43)	(37)	(45)
Intestine Large, Colon	(45)	(43)	(44)	(38)	(46)
Adenocarcinoma				1 (3%)	
Intestine Large, Rectum	(45)	(44)	(44)	(37)	(46)
Intestine Small, Duodenum	(46)	(43)	(43)	(37)	(46)
Intestine Small, Ileum	(45)	(43)	(43)	(37)	(45)
Serosa, Schwannoma Malignant			1 (2%)		
Intestine Small, Jejunum	(45)	(43)	(43)	(36)	(45)
Adenocarcinoma		1 (2%)			
Leiomyoma		1 (2%)			
Liver	(47)	(47)	(48)	(47)	(47)
Hepatocellular Adenoma	2 (4%)				1 (2%)
Hepatocellular Adenoma, Multiple				1 (2%)	
Mesentery	(4)	(9)	(6)	(8)	(3)
Adenocarcinoma, Metastatic, Intestine Small, Jejunum		1 (11%)			
Hemangioma				1 (13%)	
Lipoma					1 (33%)
Oral Mucosa	(7)	(6)	(2)	(3)	(4)
Squamous Cell Carcinoma		1 (17%)	1 (50%)		1 (25%)

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

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Squamous Cell Papilloma	3 (43%)	2 (33%)		1 (33%)	1 (25%)
Pancreas	(48)	(46)	(47)	(44)	(48)
Sarcoma					1 (2%)
Acinar Cell, Adenoma			1 (2%)	1 (2%)	
Salivary Glands	(47)	(46)	(48)	(44)	(48)
Schwannoma Malignant	1 (2%)				
Stomach, Forestomach	(47)	(47)	(46)	(46)	(46)
Stomach, Glandular	(46)	(44)	(44)	(38)	(46)
Tongue	(6)	(2)	(1)	(1)	(0)
Squamous Cell Carcinoma			1 (100%)		
Squamous Cell Papilloma	4 (67%)	1 (50%)		1 (100%)	

## CARDIOVASCULAR SYSTEM

Blood Vessel	(48)	(47)	(48)	(48)	(48)
Heart	(48)	(47)	(48)	(48)	(48)
Schwannoma Malignant	8 (17%)	7 (15%)	3 (6%)	3 (6%)	2 (4%)

## ENDOCRINE SYSTEM

Adrenal Cortex	(47)	(47)	(48)	(47)	(47)
Adrenal Medulla	(48)	(47)	(48)	(47)	(46)
Pheochromocytoma Benign	7 (15%)	3 (6%)	13 (27%)	10 (21%)	8 (17%)
Pheochromocytoma Complex				1 (2%)	2 (4%)
Pheochromocytoma Malignant	2 (4%)		4 (8%)	1 (2%)	4 (9%)
Bilateral, Pheochromocytoma Benign	2 (4%)	5 (11%)	1 (2%)	1 (2%)	2 (4%)
Islets, Pancreatic	(48)	(45)	(48)	(45)	(48)
Adenoma	1 (2%)	1 (2%)	2 (4%)	2 (4%)	4 (8%)
Carcinoma					1 (2%)
Parathyroid Gland	(48)	(45)	(47)	(47)	(48)
Pituitary Gland	(47)	(47)	(48)	(46)	(47)
Pars Distalis, Adenoma	19 (40%)	21 (45%)	31 (65%)	22 (48%)	28 (60%)
Pars Distalis, Adenoma, Multiple	1 (2%)			1 (2%)	
Pars Distalis, Carcinoma		1 (2%)			
Pars Intermedia, Adenoma				1 (2%)	1 (2%)

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

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Thyroid Gland	(46)	(47)	(48)	(42)	(47)
C-cell, Adenoma	1 (2%)		1 (2%)		4 (9%)
C-cell, Carcinoma		1 (2%)	1 (2%)	2 (5%)	1 (2%)
Follicular Cell, Adenoma	7 (15%)	3 (6%)	3 (6%)	1 (2%)	2 (4%)
Follicular Cell, Adenoma, Multiple	1 (2%)				
Follicular Cell, Carcinoma	5 (11%)	1 (2%)	3 (6%)	2 (5%)	
<b>GENERAL BODY SYSTEM</b>					
Tissue NOS	(1)	(1)	(1)	(0)	(2)
Schwannoma Malignant			1 (100%)		
Thoracic, Sarcoma					1 (50%)
<b>GENITAL SYSTEM</b>					
Coagulating Gland	(1)	(0)	(0)	(0)	(0)
Epididymis	(47)	(47)	(48)	(45)	(48)
Adventitia, Schwannoma Malignant			1 (2%)		
Preputial Gland	(48)	(47)	(48)	(48)	(48)
Adenoma	2 (4%)	3 (6%)	5 (10%)		2 (4%)
Carcinoma	4 (8%)	6 (13%)	2 (4%)	1 (2%)	6 (13%)
Hemangioma		1 (2%)			
Schwannoma Malignant	1 (2%)				
Squamous Cell Carcinoma	3 (6%)	4 (9%)	4 (8%)	5 (10%)	6 (13%)
Squamous Cell Papilloma				1 (2%)	
Prostate	(48)	(47)	(48)	(47)	(47)
Adenoma	1 (2%)	3 (6%)		1 (2%)	1 (2%)
Seminal Vesicle	(47)	(46)	(46)	(38)	(47)
Adventitia, Sarcoma					1 (2%)
Testes	(48)	(47)	(48)	(47)	(48)
Bilateral, Interstitial Cell, Adenoma	10 (21%)	21 (45%)	17 (35%)	17 (36%)	22 (46%)
Interstitial Cell, Adenoma	17 (35%)	13 (28%)	16 (33%)	17 (36%)	11 (23%)

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

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
<b>HEMATOPOIETIC SYSTEM</b>					
Bone Marrow	(46)	(46)	(45)	(40)	(47)
Lymph Node	(23)	(23)	(19)	(19)	(17)
Lumbar, Squamous Cell Carcinoma, Metastatic, Preputial Gland					1 (6%)
Lymph Node, Mandibular	(47)	(47)	(48)	(45)	(48)
Follicular, Carcinoma, Metastatic, Thyroid Gland				1 (2%)	
Lymph Node, Mesenteric	(47)	(46)	(46)	(46)	(48)
Spleen	(47)	(47)	(48)	(47)	(48)
Thymus	(43)	(42)	(43)	(38)	(43)

**INTEGUMENTARY SYSTEM**

Mammary Gland	(42)	(44)	(45)	(42)	(45)
Adenocarcinoma		1 (2%)			2 (4%)
Adenoma			1 (2%)		
Fibroadenoma	6 (14%)	5 (11%)	3 (7%)	6 (14%)	4 (9%)
Fibroadenoma, Multiple		2 (5%)			
Skin	(48)	(47)	(48)	(48)	(48)
Basal Cell Adenoma		1 (2%)	2 (4%)		1 (2%)
Keratoacanthoma	2 (4%)	1 (2%)		1 (2%)	1 (2%)
Squamous Cell Papilloma	2 (4%)				
Ear, Squamous Cell Papilloma		1 (2%)			
Sebaceous Gland, Adenoma				1 (2%)	
Subcutaneous Tissue, Fibroma	4 (8%)	1 (2%)	1 (2%)		2 (4%)
Subcutaneous Tissue, Lipoma		1 (2%)	1 (2%)		
Subcutaneous Tissue, Schwannoma Malignant		1 (2%)	1 (2%)		

**MUSCULOSKELETAL SYSTEM**

Bone	(1)	(3)	(2)	(0)	(1)
Cranium, Osteoma	1 (100%)	1 (33%)			
Humerus, Osteosarcoma			1 (50%)		

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

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS MALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Bone, Femur	(48)	(47)	(48)	(48)	(48)
Skeletal Muscle	(48)	(47)	(48)	(48)	(48)

## NERVOUS SYSTEM

Brain, Brain Stem	(48)	(47)	(48)	(48)	(48)
Brain, Cerebellum	(48)	(47)	(48)	(48)	(48)
Brain, Cerebrum	(48)	(47)	(48)	(48)	(48)
Glioma Malignant					1 (2%)
Peripheral Nerve, Sciatic	(48)	(47)	(48)	(48)	(48)
Spinal Cord, Cervical	(48)	(47)	(48)	(46)	(47)
Spinal Cord, Lumbar	(48)	(47)	(48)	(46)	(47)
Spinal Cord, Thoracic	(48)	(47)	(48)	(46)	(47)

## RESPIRATORY SYSTEM

Lung	(47)	(47)	(48)	(47)	(48)
Alveolar/Bronchiolar Adenoma	1 (2%)			1 (2%)	
Carcinoma, Metastatic, Thyroid Gland		1 (2%)			
Carcinoma, Metastatic, Zymbal'S Gland		1 (2%)			
Osteosarcoma, Metastatic, Bone			1 (2%)		
Pheochromocytoma Malignant, Metastatic, Adrenal Medulla					1 (2%)
Alveolar Epithelium, Alveolar/Bronchiolar Adenoma	1 (2%)				
Nose	(48)	(45)	(47)	(45)	(48)
Osteosarcoma		1 (2%)			
Mucosa, Squamous Cell Carcinoma			1 (2%)		
Trachea	(47)	(47)	(48)	(43)	(48)

## SPECIAL SENSES SYSTEM

Ear	(0)	(1)	(1)	(0)	(0)
Neural Crest Tumor		1 (100%)	1 (100%)		
Eye	(45)	(44)	(43)	(38)	(45)

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

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

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

Melanoma Malignant		1 (2%)			
Harderian Gland	(48)	(46)	(48)	(47)	(47)
Zymbal's Gland	(3)	(2)	(3)	(0)	(0)
Carcinoma	3 (100%)	2 (100%)	3 (100%)		

## URINARY SYSTEM

Kidney	(47)	(47)	(47)	(44)	(46)
Urethra	(1)	(0)	(0)	(0)	(0)
Urinary Bladder	(47)	(47)	(48)	(43)	(48)
Transitional Epithelium, Papilloma					1 (2%)

## SYSTEMIC LESIONS

Multiple Organ	*(48)	*(47)	*(48)	*(48)	*(48)
Histiocytic Sarcoma	1 (2%)	1 (2%)			1 (2%)
Leukemia Mononuclear	31 (65%)	27 (57%)	27 (56%)	26 (54%)	21 (44%)
Lymphoma Malignant			1 (2%)		
Mesothelioma Malignant	17 (35%)	10 (21%)	4 (8%)	1 (2%)	

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

\* Number of animals with any tissue examined microscopically

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

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

**Tumor Summary for Males**

Total Animals with Primary Neoplasms (b)	47	47	48	47	48
Total Primary Neoplasms	171	158	159	131	148
Total Animals with Benign Neoplasms	42	43	46	44	44
Total Benign Neoplasms	95	91	98	88	97
Total Animals with Malignant Neoplasms	45	41	41	32	33
Total Malignant Neoplasms	76	66	60	43	51
Total Animals with Metastatic Neoplasms		3	1	1	2
Total Metastatic Neoplasms		3	1	1	2
Total Animals with Malignant Neoplasms Uncertain Primary Site					
Total Animals with Neoplasms Uncertain- Benign or Malignant		1	1		
Total Uncertain Neoplasms		1	1		

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

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

b - Primary tumors: all tumors except metastatic tumors



Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

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

**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)
Intestine Large, Cecum	(45)	(45)	(44)	(48)	(46)
Adenoma					1 (2%)
Intestine Large, Colon	(45)	(45)	(44)	(48)	(46)
Adenoma			1 (2%)		
Intestine Large, Rectum	(45)	(45)	(45)	(48)	(46)
Sarcoma, Metastatic, Clitoral Gland		1 (2%)			
Schwannoma Malignant			1 (2%)		
Intestine Small, Duodenum	(45)	(45)	(45)	(48)	(46)
Adenocarcinoma				1 (2%)	
Leiomyoma			1 (2%)	1 (2%)	
Intestine Small, Ileum	(45)	(45)	(44)	(48)	(46)
Intestine Small, Jejunum	(44)	(44)	(45)	(48)	(46)
Sarcoma, Metastatic, Uterus				1 (2%)	
Liver	(48)	(48)	(48)	(48)	(48)
Hepatocellular Adenoma, Multiple					1 (2%)
Mesentery	(5)	(9)	(1)	(4)	(4)
Oral Mucosa	(9)	(4)	(5)	(2)	(1)
Squamous Cell Carcinoma	2 (22%)	1 (25%)			
Squamous Cell Papilloma	4 (44%)		2 (40%)	1 (50%)	1 (100%)
Pancreas	(48)	(48)	(48)	(48)	(48)
Sarcoma, Metastatic, Uterus				1 (2%)	

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

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Salivary Glands	(48)	(48)	(48)	(48)	(48)
Stomach, Forestomach	(46)	(47)	(48)	(48)	(48)
Squamous Cell Papilloma	3 (7%)			1 (2%)	
Stomach, Glandular	(46)	(46)	(45)	(48)	(47)
Adenoma	1 (2%)				
Tongue	(4)	(3)	(1)	(1)	(0)
Squamous Cell Carcinoma	1 (25%)				
Squamous Cell Papilloma		1 (33%)		1 (100%)	

## CARDIOVASCULAR SYSTEM

Blood Vessel	(48)	(48)	(48)	(48)	(48)
Heart	(48)	(48)	(48)	(48)	(48)
Schwannoma Malignant	1 (2%)	2 (4%)	4 (8%)	1 (2%)	2 (4%)

## ENDOCRINE SYSTEM

Adrenal Cortex	(48)	(48)	(48)	(48)	(48)
Adenoma			1 (2%)		
Carcinoma					1 (2%)
Adrenal Medulla	(48)	(47)	(47)	(48)	(47)
Pheochromocytoma Benign	2 (4%)	4 (9%)	1 (2%)	1 (2%)	2 (4%)
Pheochromocytoma Complex	1 (2%)				
Pheochromocytoma Malignant		1 (2%)	1 (2%)		
Bilateral, Pheochromocytoma Benign					1 (2%)
Islets, Pancreatic	(47)	(48)	(48)	(48)	(48)
Adenoma				1 (2%)	
Parathyroid Gland	(46)	(47)	(48)	(45)	(48)
Pituitary Gland	(48)	(46)	(47)	(48)	(47)
Pars Distalis, Adenoma	24 (50%)	27 (59%)	32 (68%)	36 (75%)	32 (68%)
Pars Distalis, Carcinoma			2 (4%)	2 (4%)	2 (4%)
Thyroid Gland	(47)	(46)	(46)	(48)	(48)
C-cell, Adenoma	2 (4%)	4 (9%)	6 (13%)	3 (6%)	1 (2%)
C-cell, Adenoma, Multiple				1 (2%)	1 (2%)
C-cell, Carcinoma	1 (2%)				1 (2%)

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

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Follicular Cell, Adenoma	5 (11%)	1 (2%)	3 (7%)	3 (6%)	
Follicular Cell, Carcinoma	2 (4%)	3 (7%)	2 (4%)		
Follicular Cell, Carcinoma, Multiple	1 (2%)				
<b>GENERAL BODY SYSTEM</b>					
Tissue NOS	(0)	(0)	(0)	(1)	(0)
Sarcoma, Metastatic, Uterus				1 (100%)	
<b>GENITAL SYSTEM</b>					
Clitoral Gland	(47)	(48)	(48)	(48)	(48)
Adenoma	5 (11%)	3 (6%)	6 (13%)	3 (6%)	6 (13%)
Carcinoma	13 (28%)	11 (23%)	7 (15%)	6 (13%)	4 (8%)
Sarcoma, Deep Invasion		1 (2%)			
Squamous Cell Carcinoma					2 (4%)
Squamous Cell Papilloma	2 (4%)	1 (2%)			
Bilateral, Carcinoma	1 (2%)				
Ovary	(48)	(48)	(48)	(48)	(48)
Granulosa Cell Tumor Malignant					1 (2%)
Uterus	(48)	(48)	(48)	(48)	(48)
Adenoma	1 (2%)	1 (2%)			
Deciduoma Benign					1 (2%)
Polyp Stromal	10 (21%)	13 (27%)	12 (25%)	10 (21%)	9 (19%)
Polyp Stromal, Multiple				1 (2%)	1 (2%)
Sarcoma		1 (2%)		1 (2%)	
Sarcoma Stromal	2 (4%)	1 (2%)	2 (4%)		1 (2%)
Bilateral, Polyp Stromal	1 (2%)	1 (2%)	1 (2%)		1 (2%)
Vagina	(1)	(5)	(4)	(3)	(3)
Sarcoma, Metastatic, Clitoral Gland		1 (20%)			
Sarcoma Stromal	1 (100%)				
<b>HEMATOPOIETIC SYSTEM</b>					

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

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Bone Marrow	(47)	(47)	(46)	(48)	(48)
Lymph Node	(18)	(12)	(15)	(9)	(5)
Cervical, Carcinoma, Metastatic, Thyroid Gland	1 (6%)				
Lymph Node, Mandibular	(47)	(47)	(47)	(48)	(48)
Osteosarcoma, Metastatic, Nose		1 (2%)			
Lymph Node, Mesenteric	(48)	(48)	(47)	(48)	(47)
Sarcoma, Metastatic, Uterus				1 (2%)	
Spleen	(48)	(48)	(48)	(48)	(48)
Osteosarcoma, Metastatic, Nose		1 (2%)			
Thymus	(44)	(45)	(45)	(47)	(45)
Thymoma Benign			1 (2%)		

## INTEGUMENTARY SYSTEM

Mammary Gland	(48)	(48)	(48)	(48)	(48)
Adenocarcinoma	2 (4%)	2 (4%)	2 (4%)		1 (2%)
Adenoma	3 (6%)		1 (2%)		2 (4%)
Adenoma, Multiple	1 (2%)				
Fibroadenoma	13 (27%)	10 (21%)	16 (33%)	15 (31%)	9 (19%)
Fibroadenoma, Multiple	23 (48%)	23 (48%)	19 (40%)	11 (23%)	7 (15%)
Skin	(48)	(48)	(48)	(48)	(48)
Basal Cell Carcinoma					1 (2%)
Squamous Cell Carcinoma	1 (2%)				
Subcutaneous Tissue, Fibroma		1 (2%)			1 (2%)
Subcutaneous Tissue, Lipoma			1 (2%)	2 (4%)	

## MUSCULOSKELETAL SYSTEM

Bone	(0)	(0)	(1)	(1)	(0)
Cranium, Meningioma Malignant, Metastatic, Brain, Cerebrum				1 (100%)	
Bone, Femur	(48)	(48)	(48)	(48)	(48)
Chondrosarcoma				1 (2%)	
Skeletal Muscle	(48)	(48)	(48)	(48)	(48)
Rhabdomyosarcoma				1 (2%)	

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

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

FISCHER 344 RATS-NCTR RATS FEMALE	0.70 GLYCID	0.35 GLYCID	0.175 GLYCID	0.0875 GLYCID	CONTROL WATER
Sarcoma, Metastatic, Clitoral Gland		1 (2%)			
<b>NERVOUS SYSTEM</b>					
Brain, Brain Stem	(48)	(48)	(47)	(48)	(48)
Carcinoma, Metastatic, Pituitary Gland			2 (4%)	2 (4%)	2 (4%)
Brain, Cerebellum	(48)	(48)	(47)	(48)	(48)
Astrocytoma Malignant		1 (2%)			
Granular Cell Tumor Benign		1 (2%)			
Meningioma Malignant, Metastatic, Brain, Cerebrum				1 (2%)	
Brain, Cerebrum	(48)	(48)	(48)	(48)	(48)
Astrocytoma Malignant	1 (2%)				
Carcinoma, Metastatic, Pituitary Gland			1 (2%)		
Glioma Malignant	1 (2%)	1 (2%)			
Meningioma Malignant				1 (2%)	
Peripheral Nerve, Sciatic	(48)	(48)	(48)	(48)	(48)
Spinal Cord, Cervical	(48)	(48)	(48)	(48)	(48)
Spinal Cord, Lumbar	(48)	(48)	(47)	(48)	(48)
Spinal Cord, Thoracic	(48)	(48)	(47)	(48)	(48)
<b>RESPIRATORY SYSTEM</b>					
Lung	(48)	(48)	(48)	(48)	(48)
Alveolar/Bronchiolar Adenoma			1 (2%)		
Carcinoma, Metastatic, Zymbal'S Gland					1 (2%)
Sarcoma, Metastatic, Uterus				1 (2%)	
Nose	(47)	(48)	(48)	(48)	(48)
Adenoma	1 (2%)				
Osteosarcoma		1 (2%)			
Nasopharyngeal Duct, Squamous Cell Carcinoma	1 (2%)				
Trachea	(48)	(47)	(47)	(48)	(48)

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

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

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

## SPECIAL SENSES SYSTEM

Eye	(45)	(45)	(45)	(47)	(46)
Harderian Gland	(47)	(47)	(46)	(48)	(48)
Zymbal's Gland	(2)	(0)	(0)	(0)	(1)
Carcinoma	2 (100%)				1 (100%)

## URINARY SYSTEM

Kidney	(48)	(47)	(48)	(48)	(48)
Urinary Bladder	(47)	(47)	(48)	(48)	(48)
Sarcoma Stromal, Metastatic, Uterus			1 (2%)		
Transitional Epithelium, Papilloma	1 (2%)				

## SYSTEMIC LESIONS

Multiple Organ	*(48)	*(48)	*(48)	*(48)	*(48)
Histiocytic Sarcoma	1 (2%)				
Leukemia Mononuclear	27 (56%)	19 (40%)	21 (44%)	11 (23%)	14 (29%)
Lymphoma Malignant		1 (2%)			

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

\* Number of animals with any tissue examined microscopically

Test Type: CHRONIC

Glycidamide

Time Report Requested: 07:40:57

Route: DOSED WATER

CAS Number: 5694-00-8

First Dose M/F: 05/30/05 / 05/30/05

Species/Strain: RATS/F 344/NCTR

Lab: NCTR

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

**Tumor Summary for Females**

Total Animals with Primary Neoplasms (b)	48	46	46	48	45
Total Primary Neoplasms	164	137	147	116	108
Total Animals with Benign Neoplasms	44	40	42	47	40
Total Benign Neoplasms	102	91	105	91	77
Total Animals with Malignant Neoplasms	44	34	31	20	22
Total Malignant Neoplasms	62	46	42	25	31
Total Animals with Metastatic Neoplasms	1	2	3	4	2
Total Metastatic Neoplasms	1	5	4	9	3
Total Animals with Malignant Neoplasms Uncertain Primary Site					
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